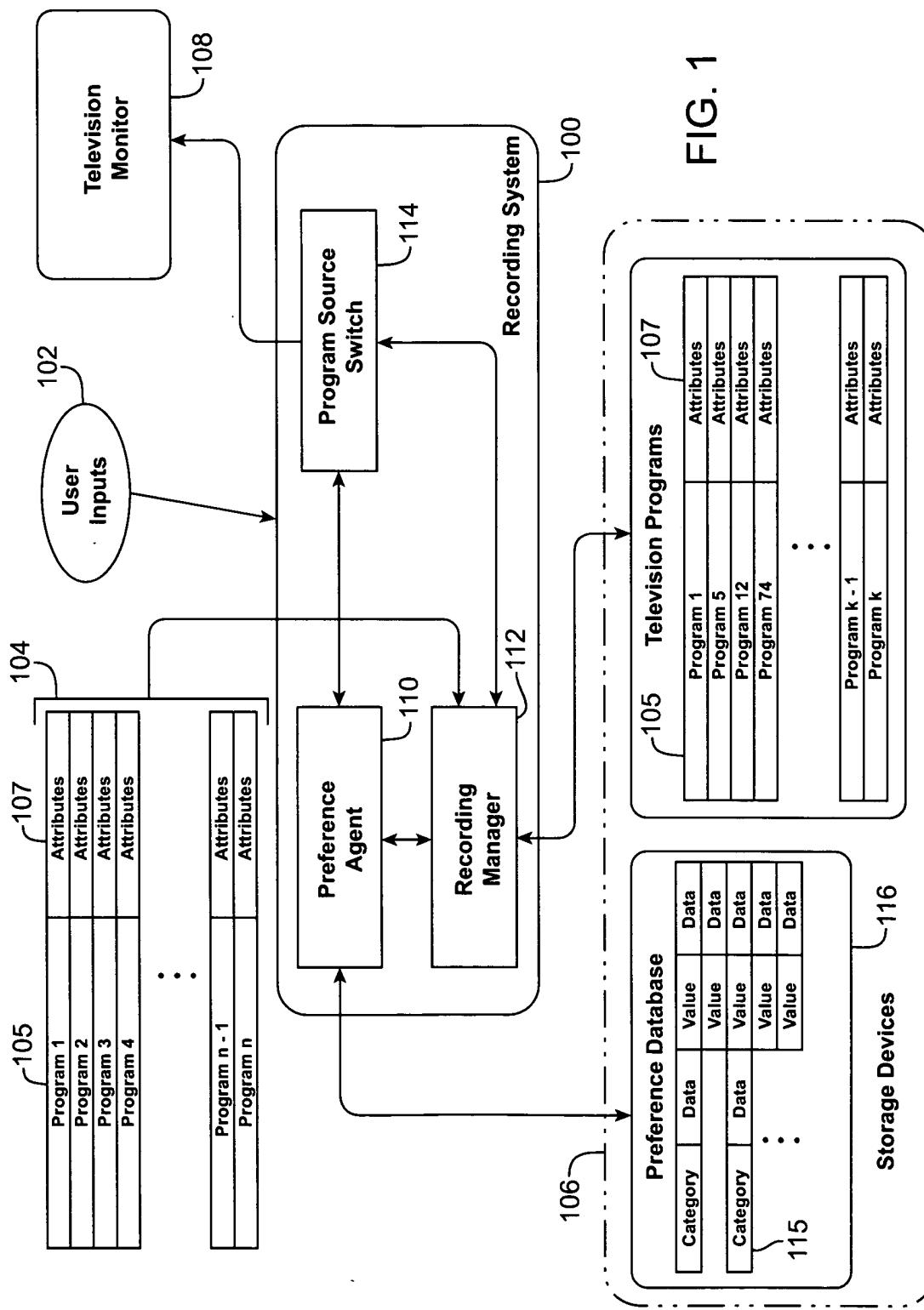




METHOD AND APPARATUS FOR
DELIVERY OF TARGETED VIDEO
PROGRAMMING
Application No. 09/652,478
Inventor: ISMAIL *et al.*
Attorney Docket No. MET2.PAU.04.CIP



1
FIG

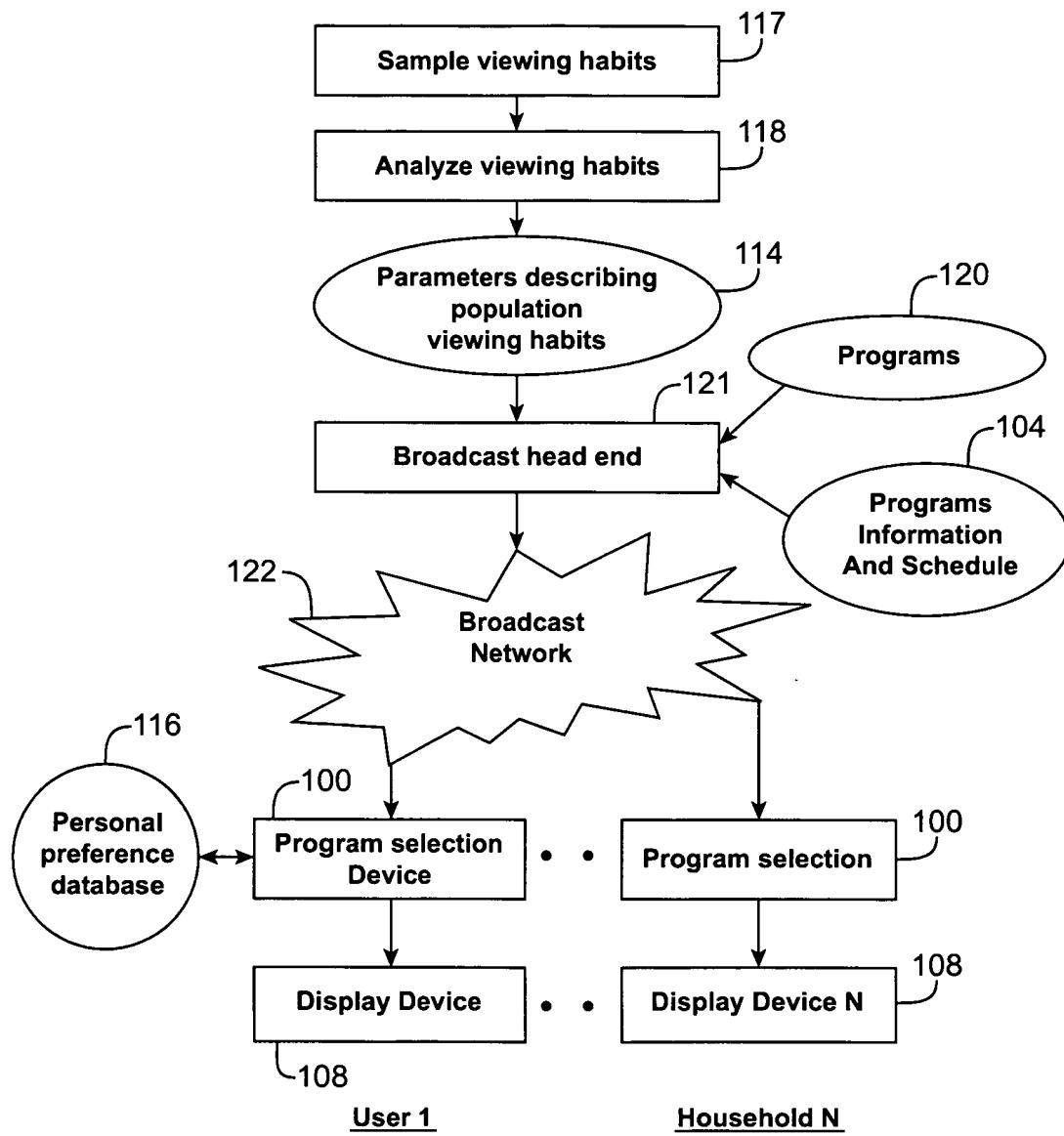


FIG. 2

Examples of Program Information

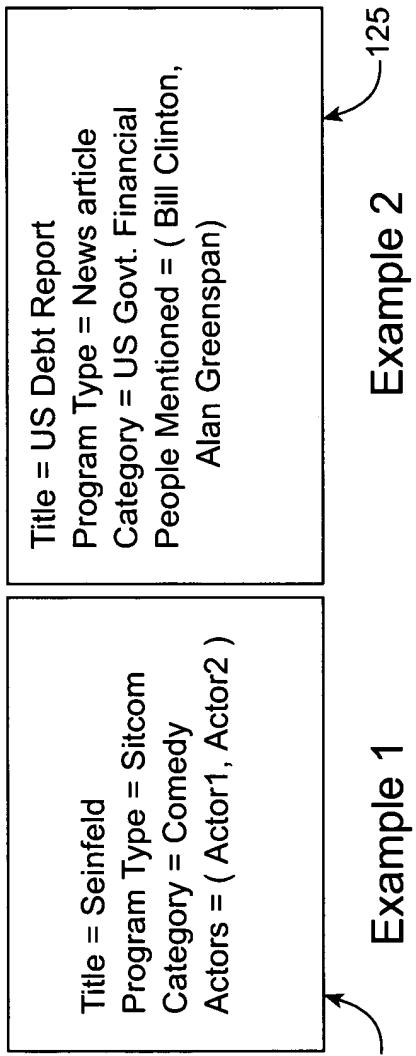


FIG. 3

Examples for Likiting for viewer N

Examples for traits

Movie = 14
Adventure = 3
Sports = 0.3
Mad About You = 5
dynamic trait 1 = 3
Dynamic trait 2 = 5
NBC NEWS = 13
FRIDAY Movie = 18
Premier Mad About You = 15

127

126

FIG. 4

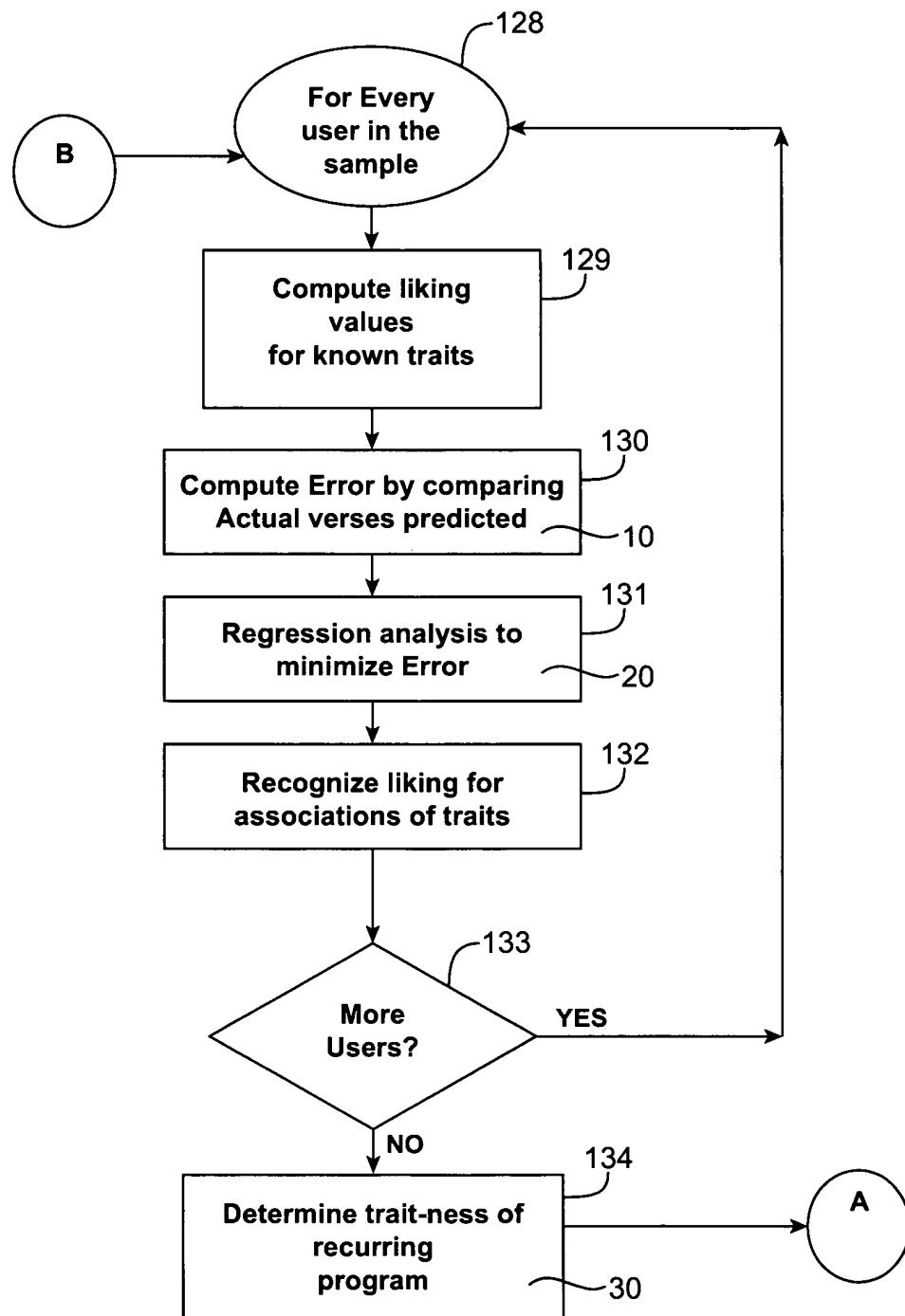


FIG. 5(a)

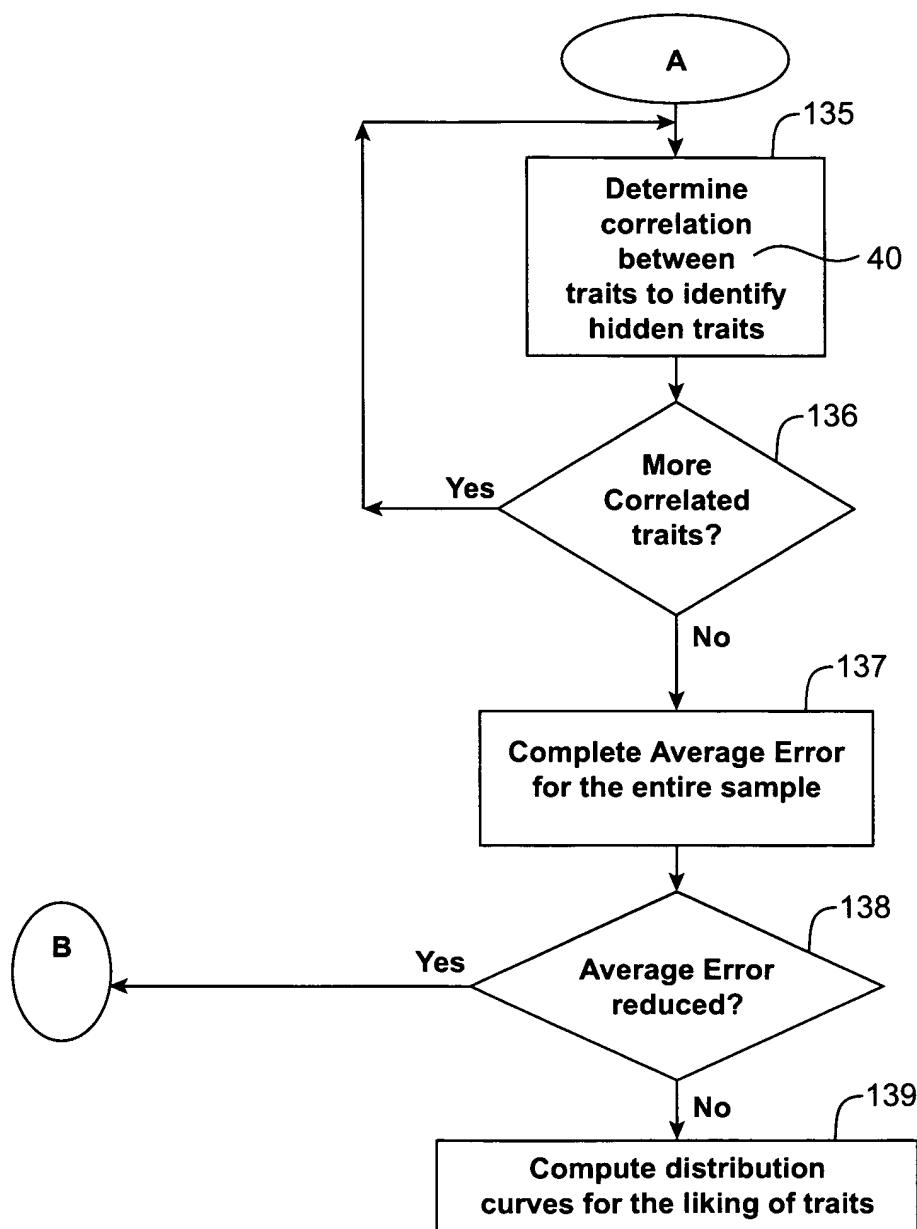


FIG. (5b)

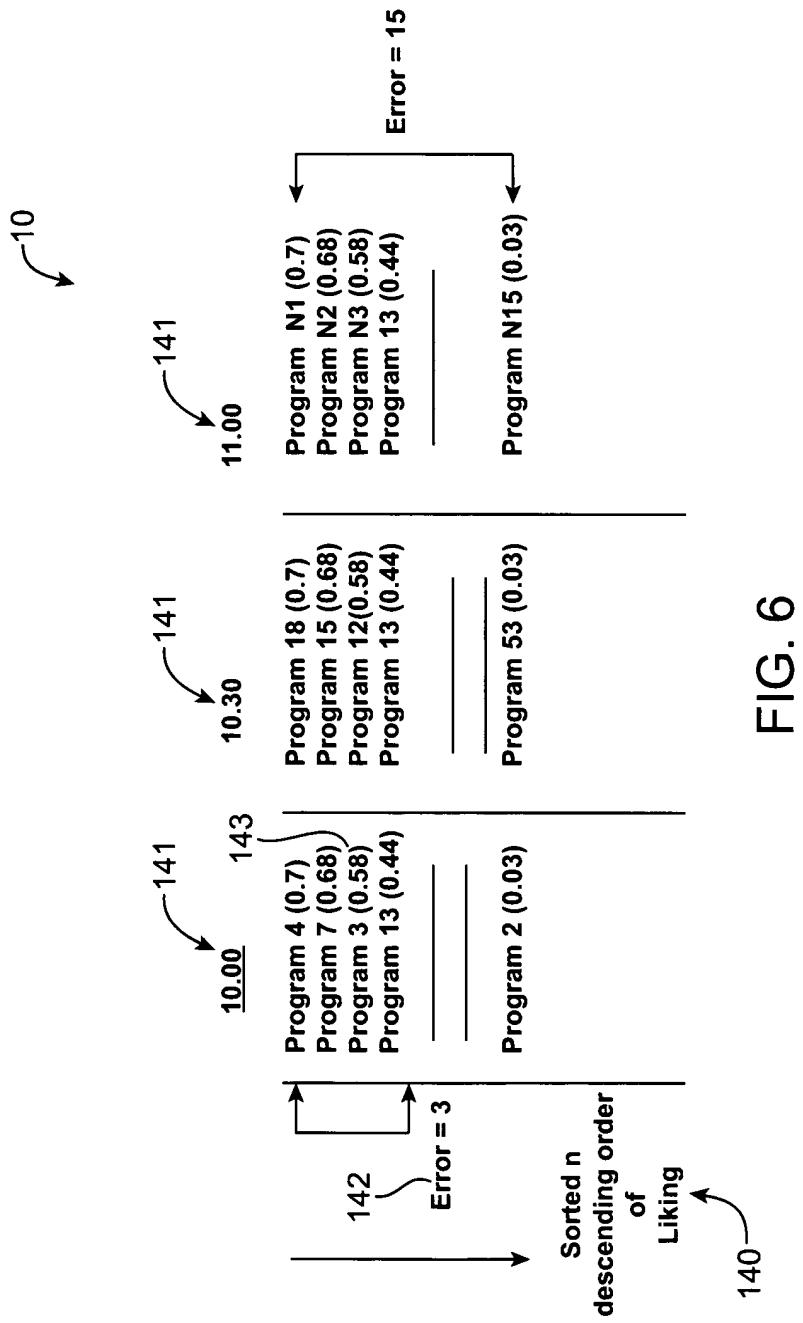
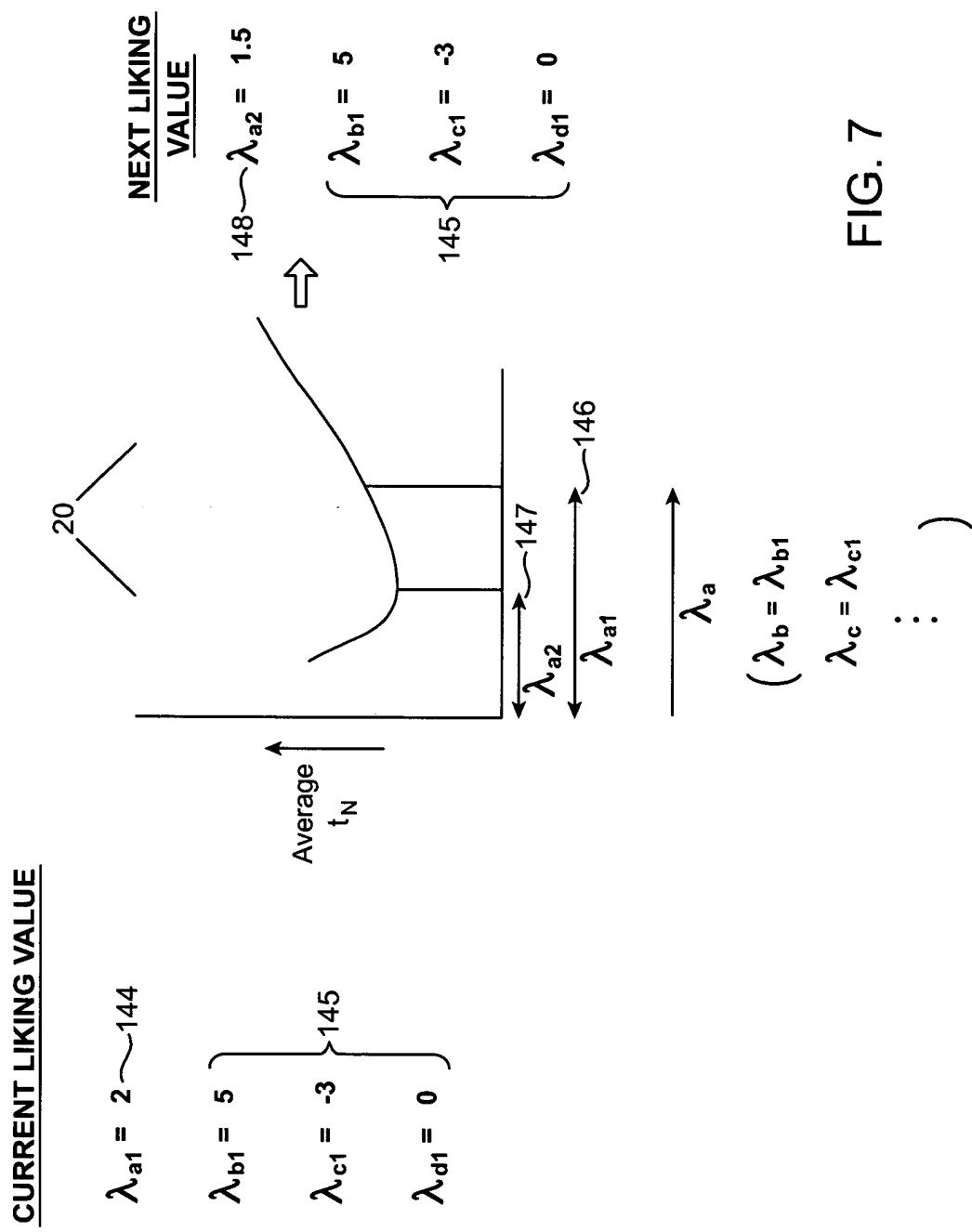
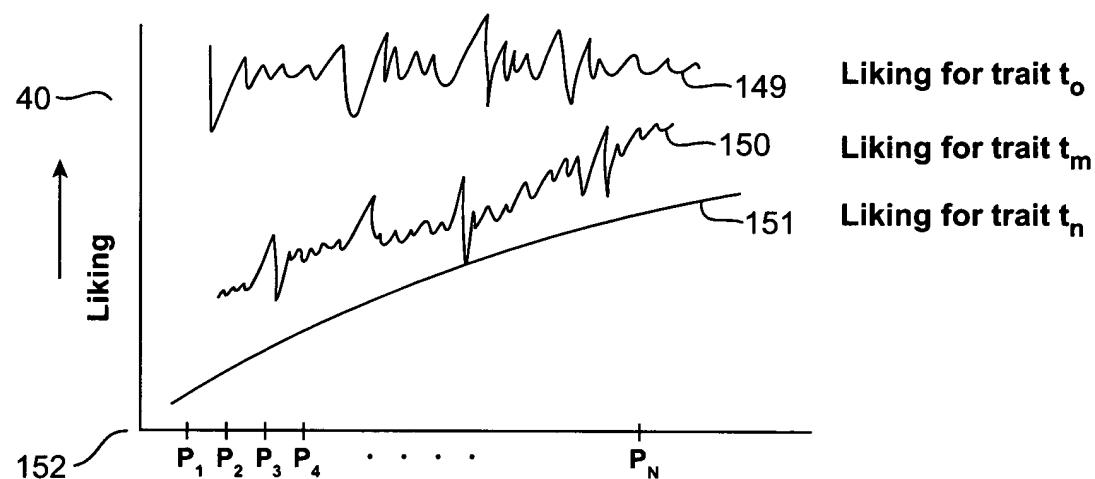


FIG. 6



RECOGNIZING HIDDEN TRAITS IN PROGRAMS



t_m & t_n are correlated

$\Rightarrow t_m$ can be expressed as $t_m = t_x + t_{m'}$

t_n can be expressed as $t_n = Ct_x + t_{m'}$

FIG. 8

Computing Traitness of a trait is a program

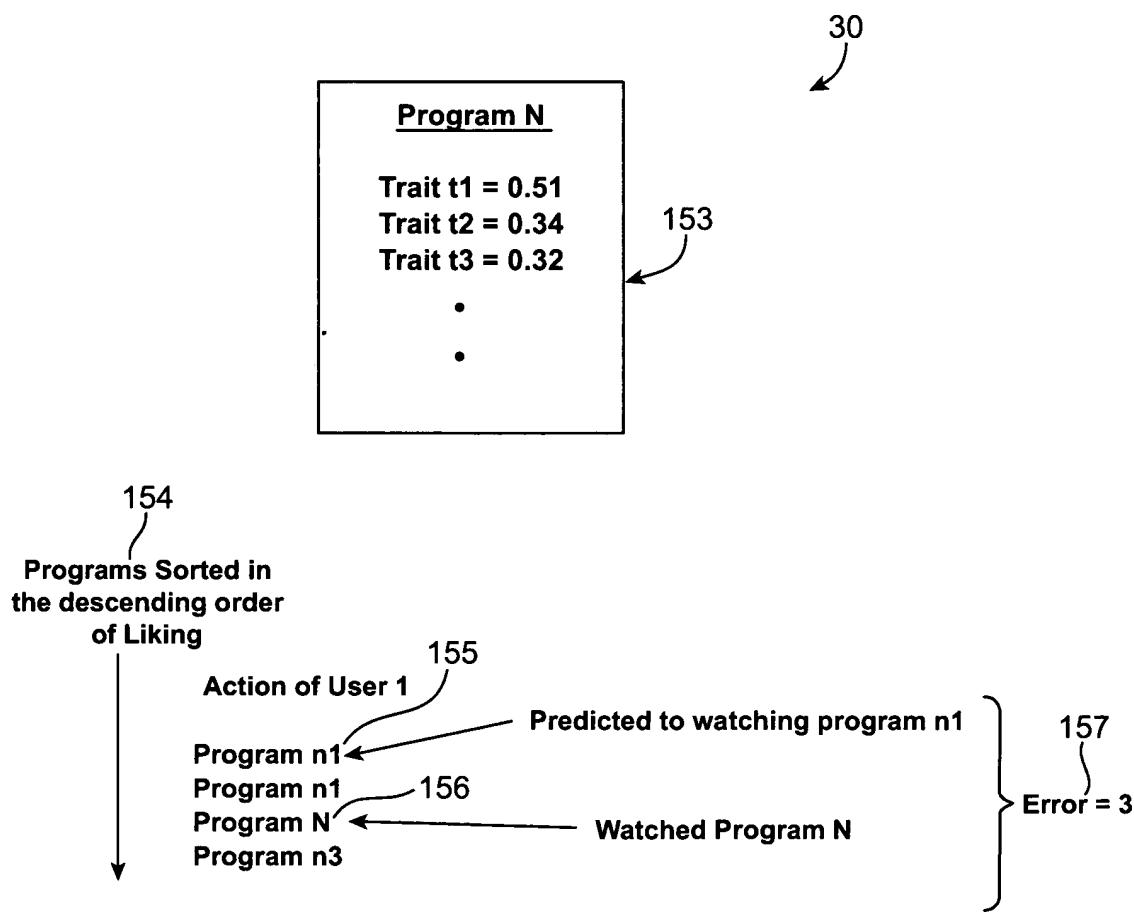


FIG. 9(a)

Computing Traitness of a trait a program

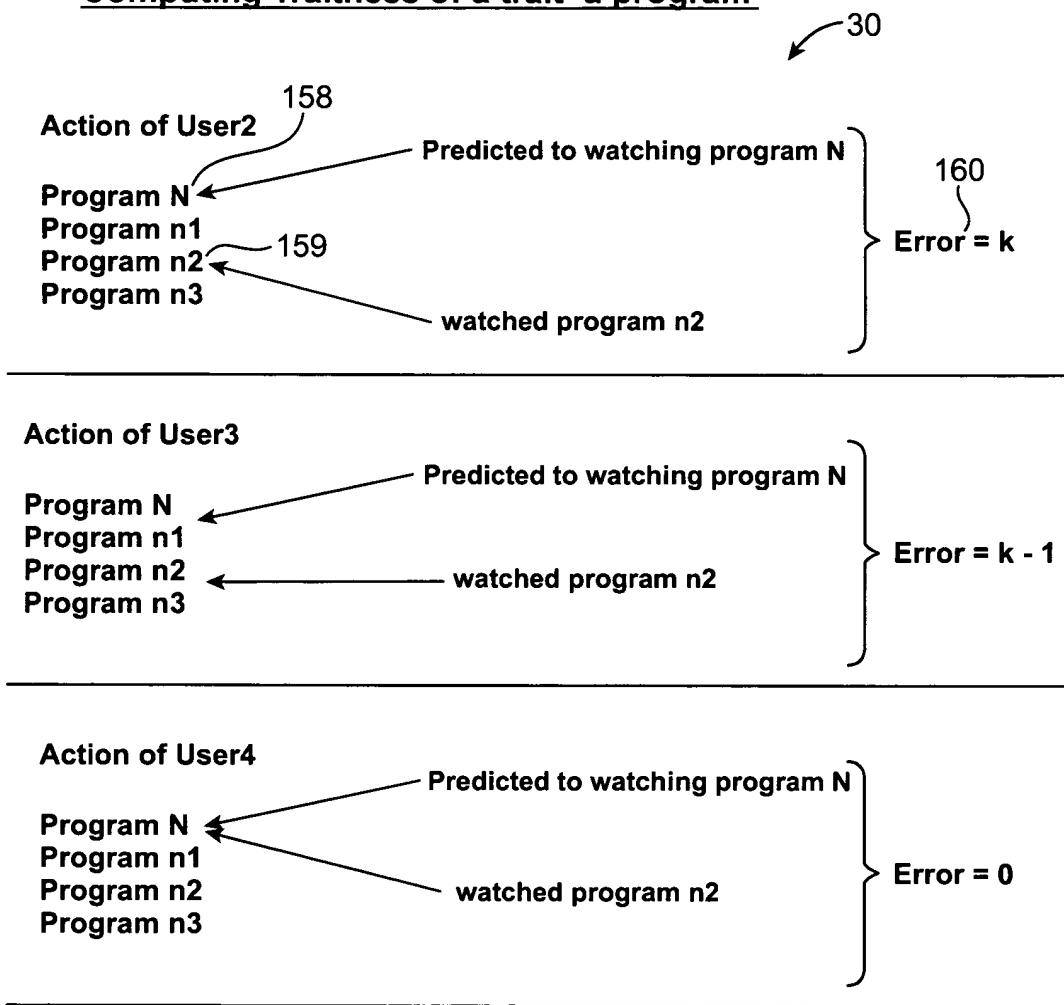
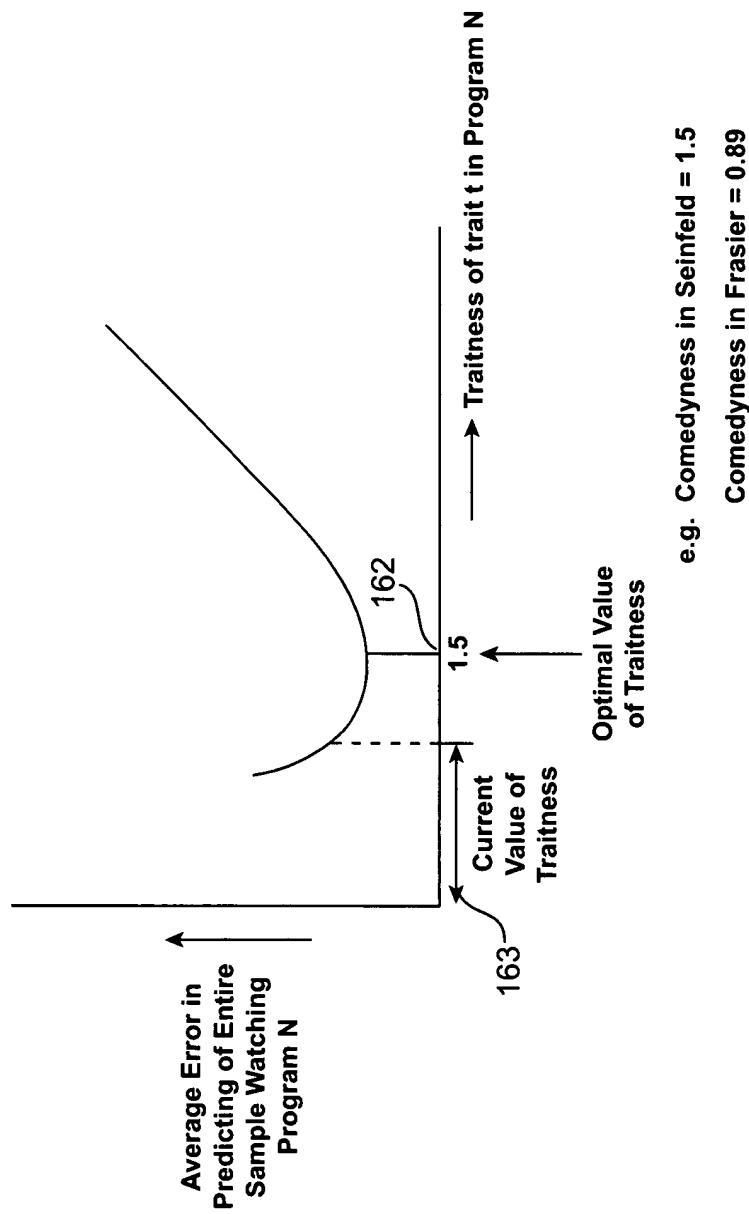


FIG. 9(b)

COMPUTING TRAITNESS OF A TRAIT IN A PROGRAM



e.g. Comedyness in Seinfeld = 1.5
Comedyness in Frasier = 0.89

FIG. 9(c)

Example for Liking Distribution Record format

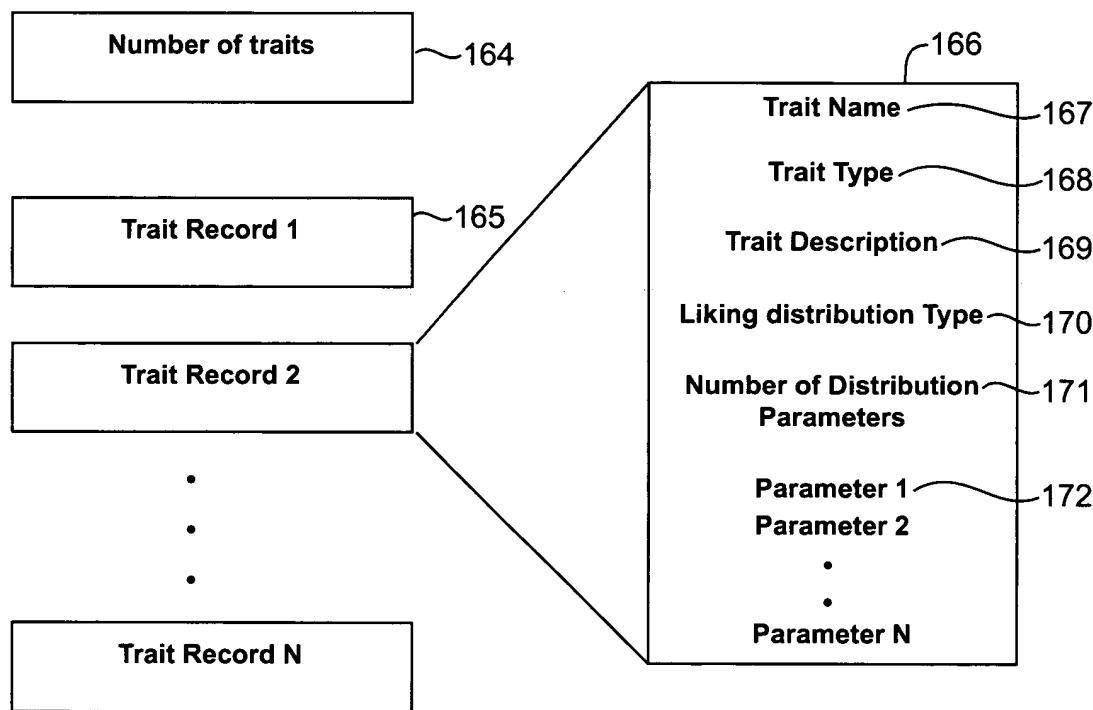


FIG. 10

Some Sample Values For Fields in trait Record

<u>Trait type</u>	<u>Trait Description</u>
Static	(NBC, "NEWS"),
dynamic	SUBSTRING("CIA") IN DESC.
Association	TITLE
Generated	

<u>Distribution</u>	<u>Distribution Parameters</u>
Normal	Mean = 13, Deviation = 2
Exponential	
Defined type 1	
Defined type 2	

FIG. 11

Example for Traitness of recurring Programs

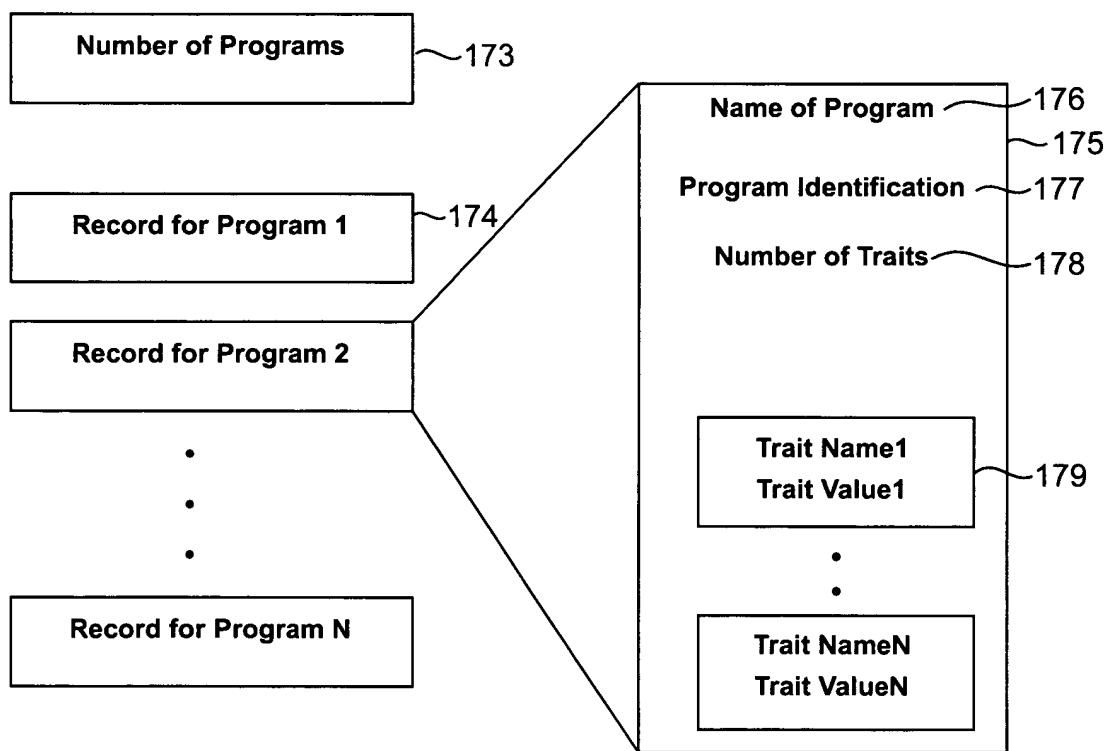


FIG. 12

Example For Broadcast traitness as a part of EPG Data

Program Info

Seinfeld,
NBC,
Comedy = 0.07
sitcom,
Dynamic trait 1 = 0.1

•
•

Actor = Seinfeld

FIG. 13

Example for Selection Record

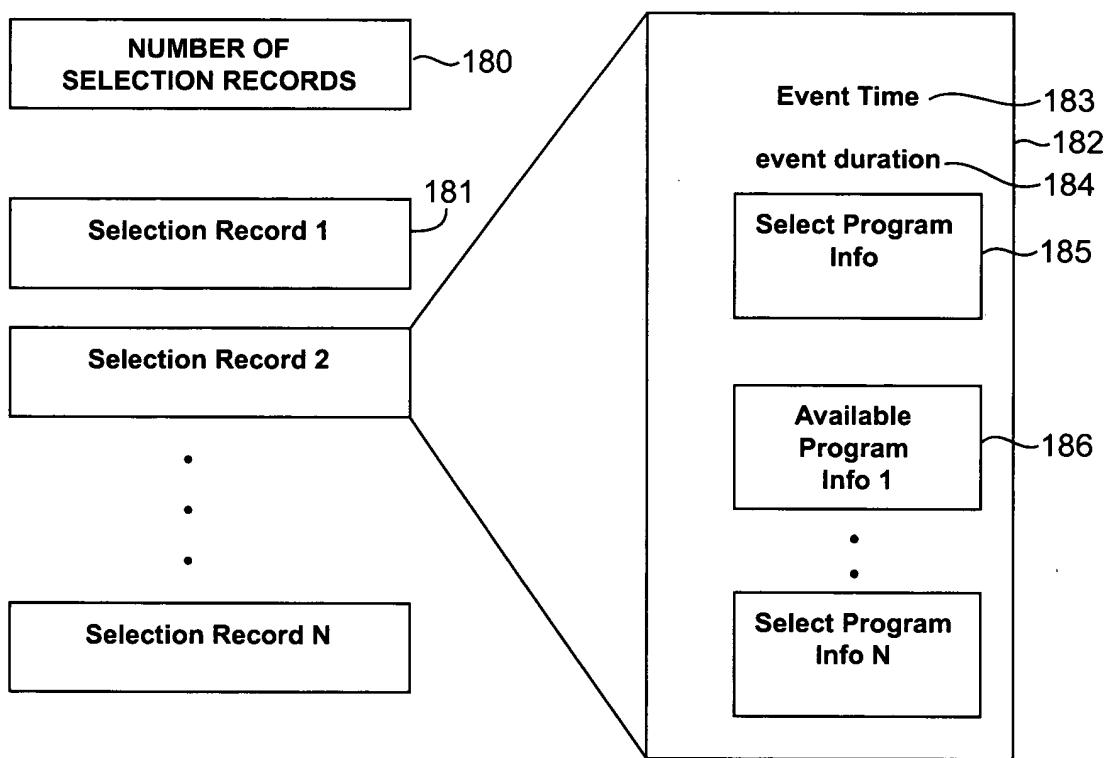


FIG. 14

Generation of User Selection History

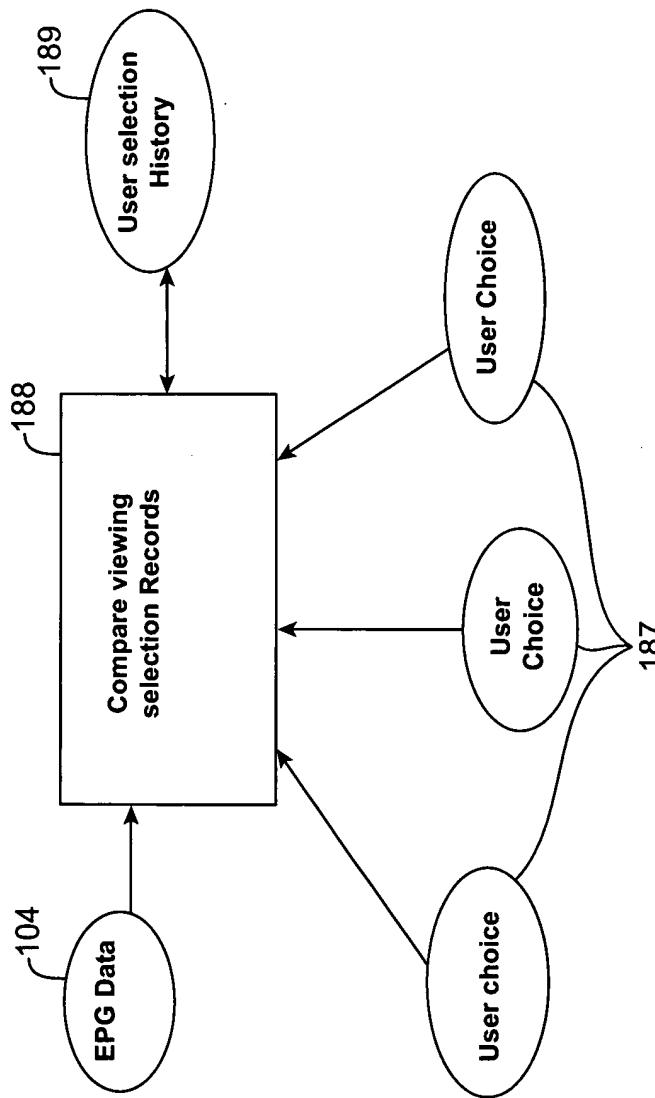
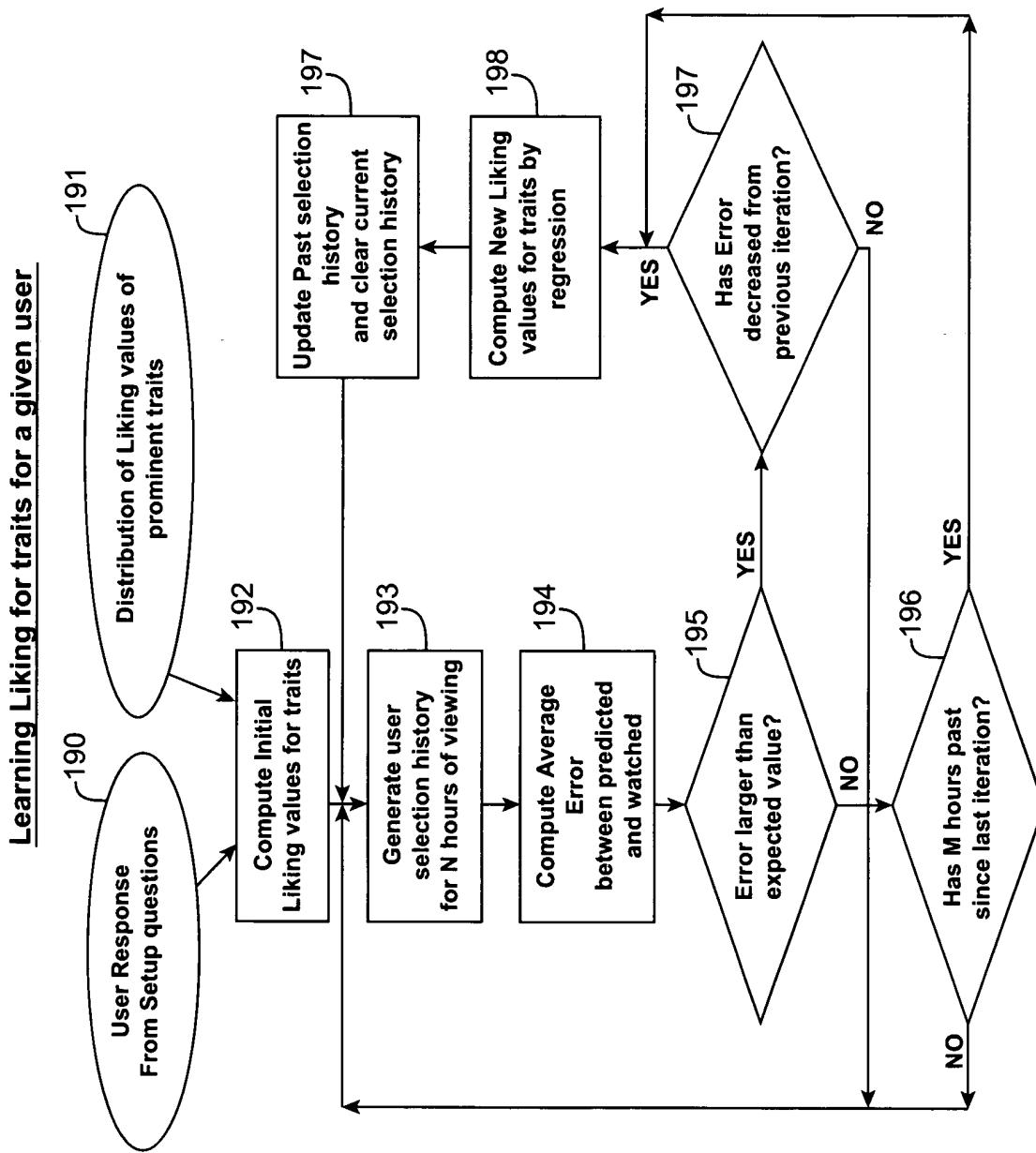


FIG. 15

FIG. 16



Computing Relevance

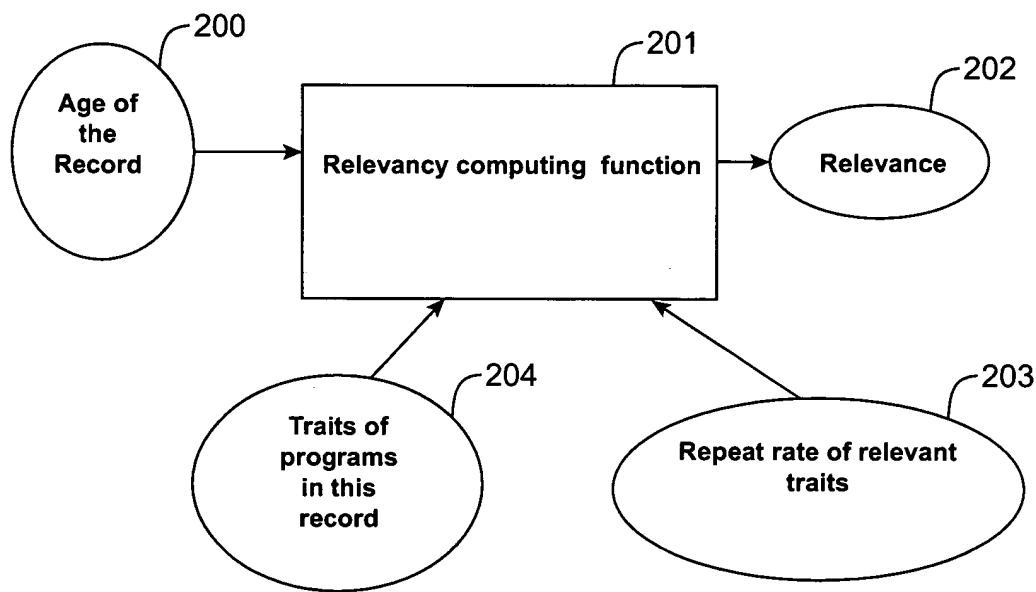


FIG. 17(a)

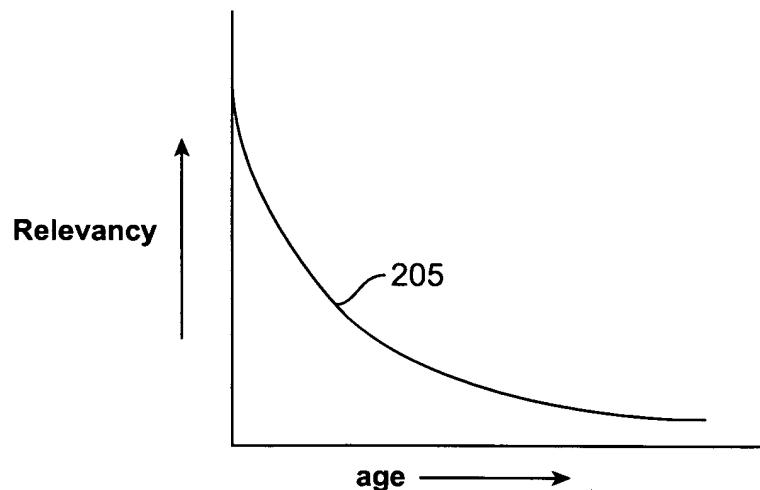


FIG. 17(b)

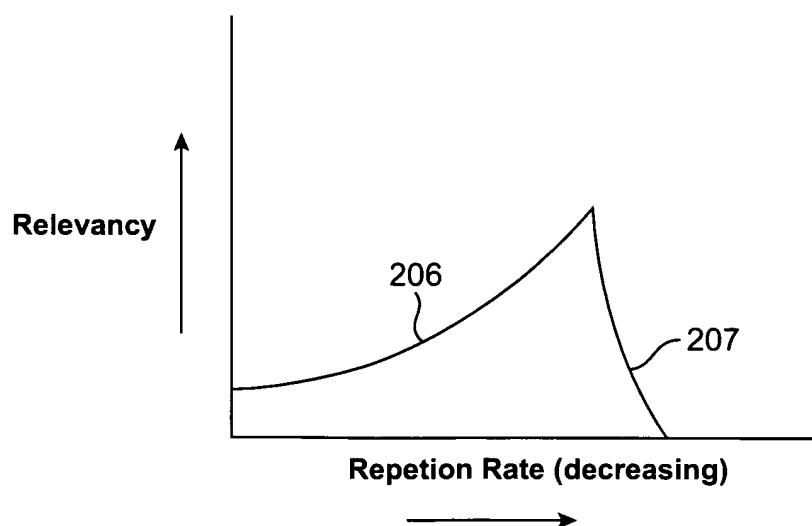


FIG. 17(c)

Updation of past History

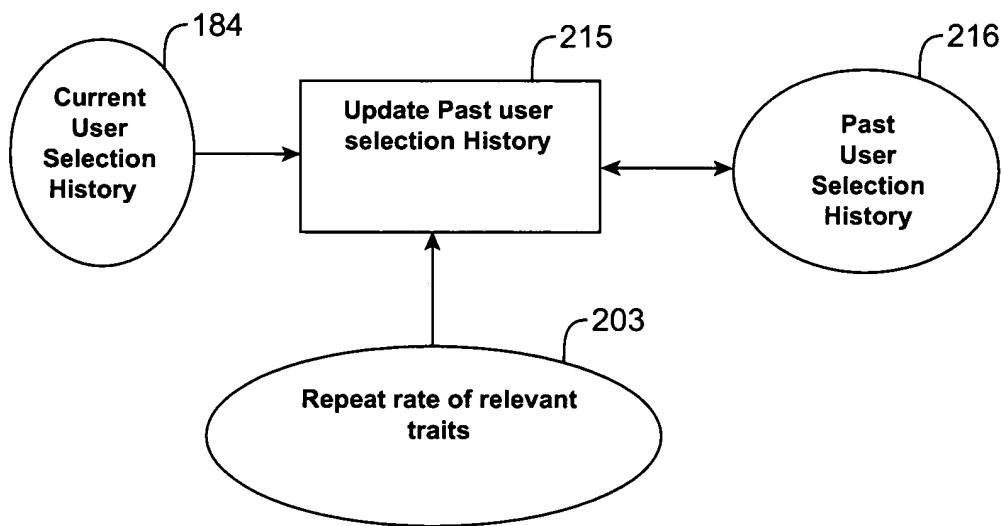


FIG. 18(a)

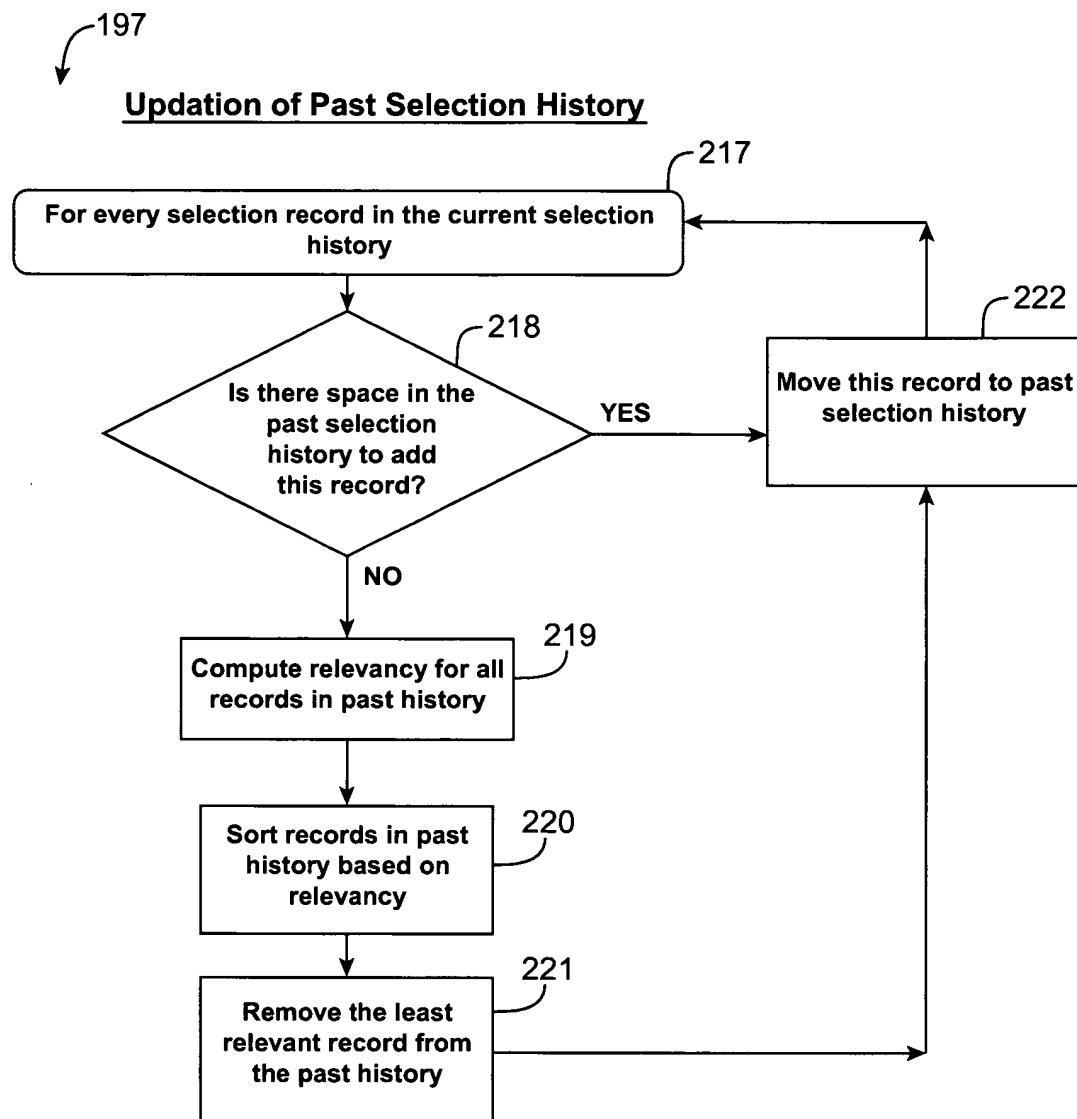


FIG. 18(b)

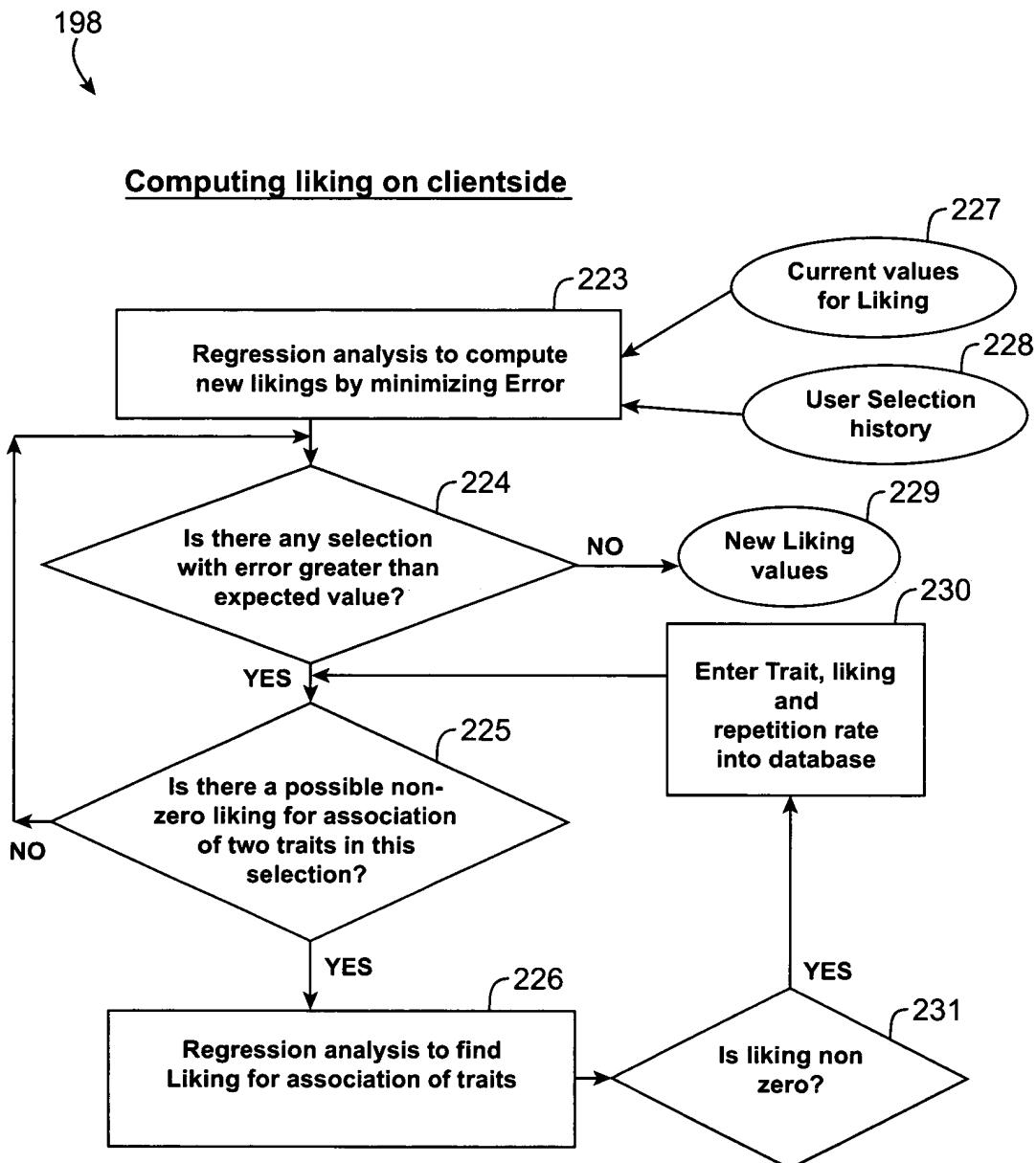


FIG. 19

Computing scores for programs for future predictions

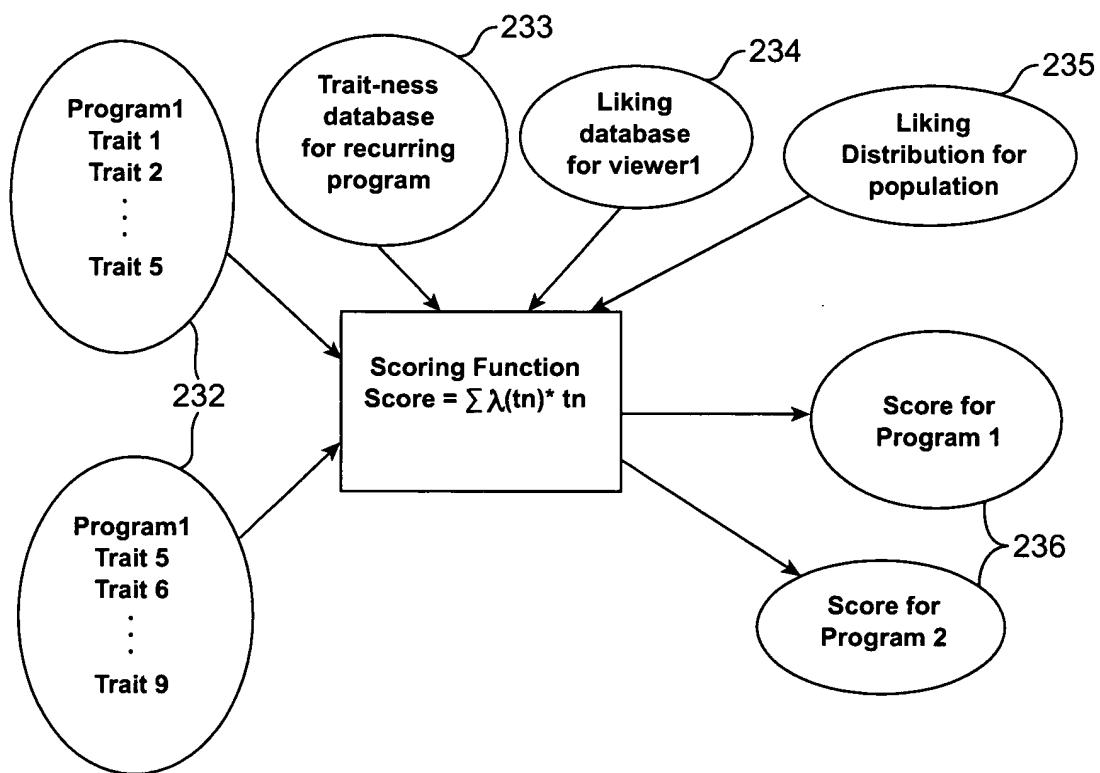


FIG. 20

Distribution of Income in Sample

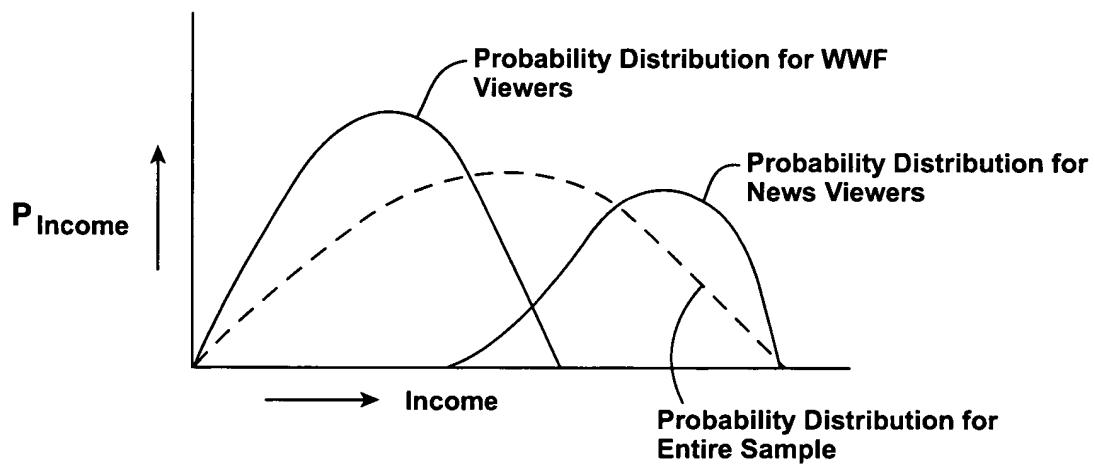
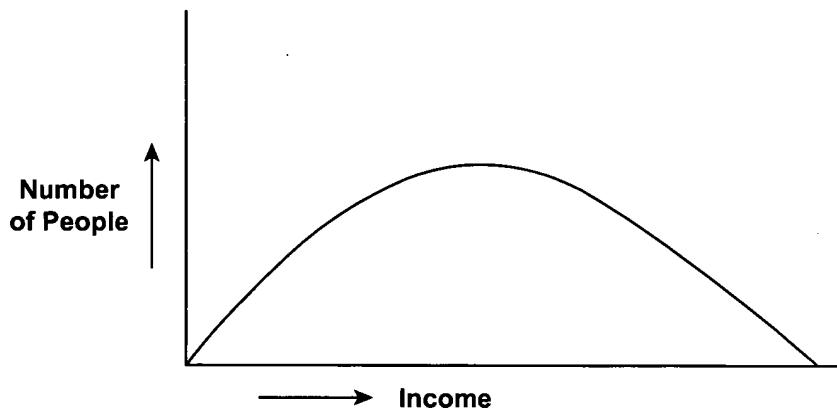


FIG. 21(a)

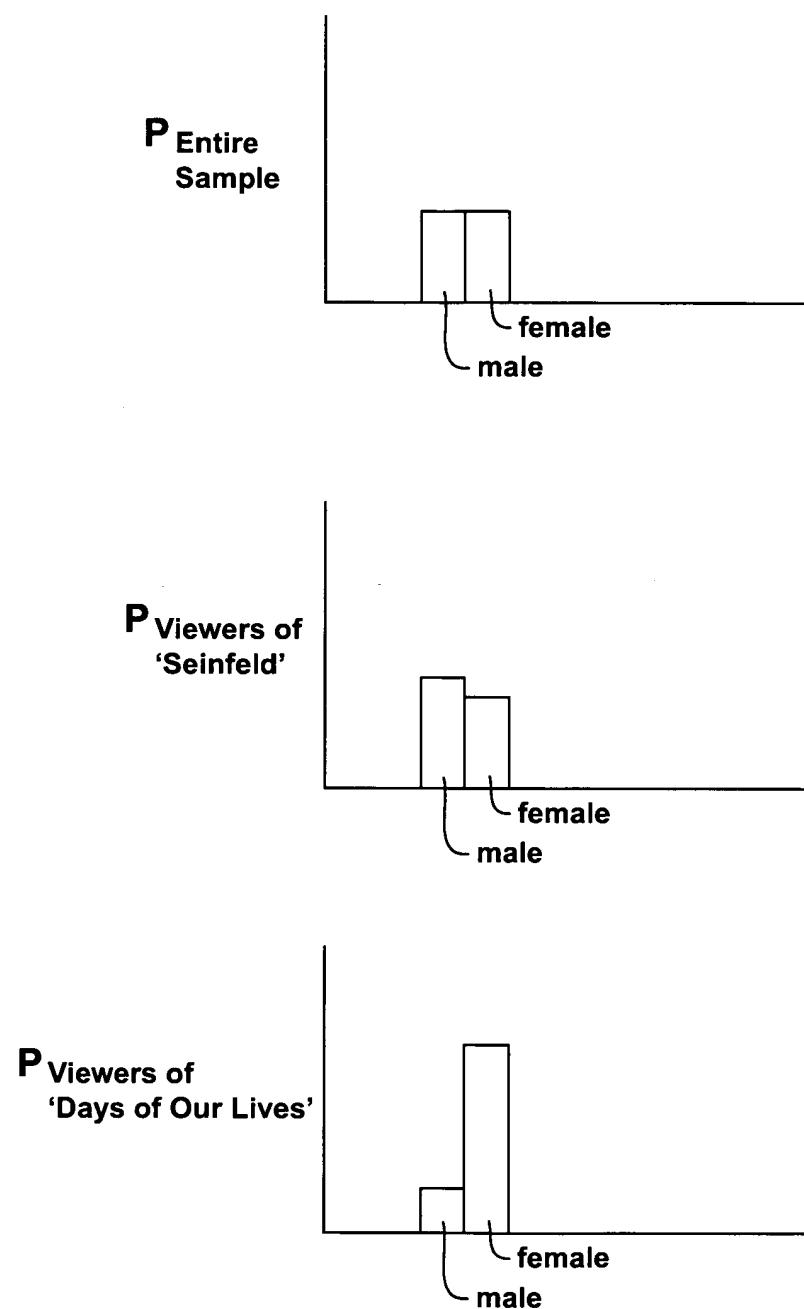


FIG. 21(b)

SYSTEM ARCHITECTURE

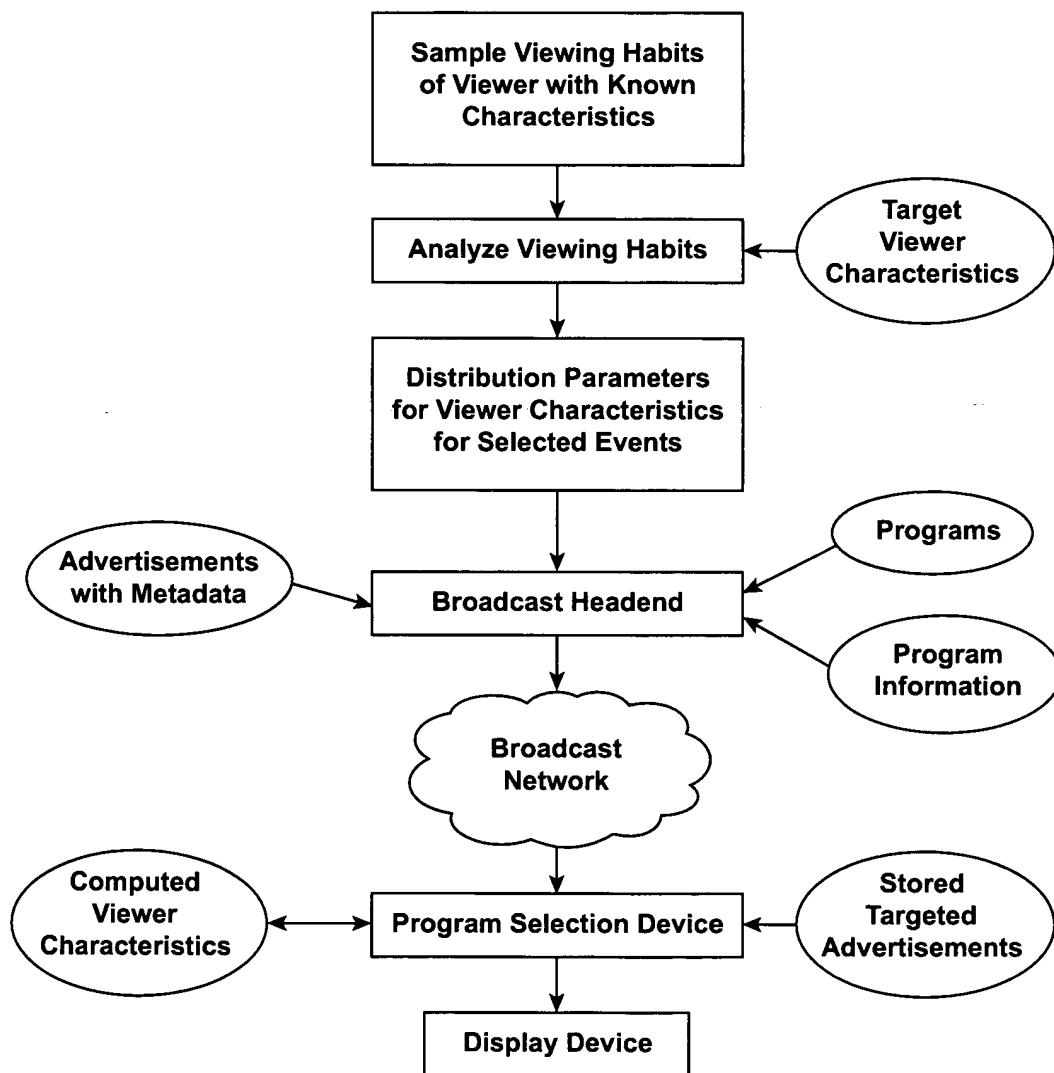


FIG. 22

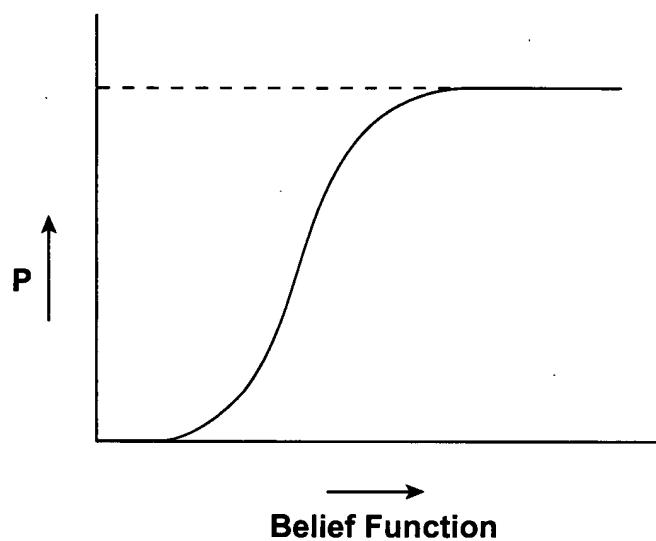


FIG. 23a

Demographic Trait Record format

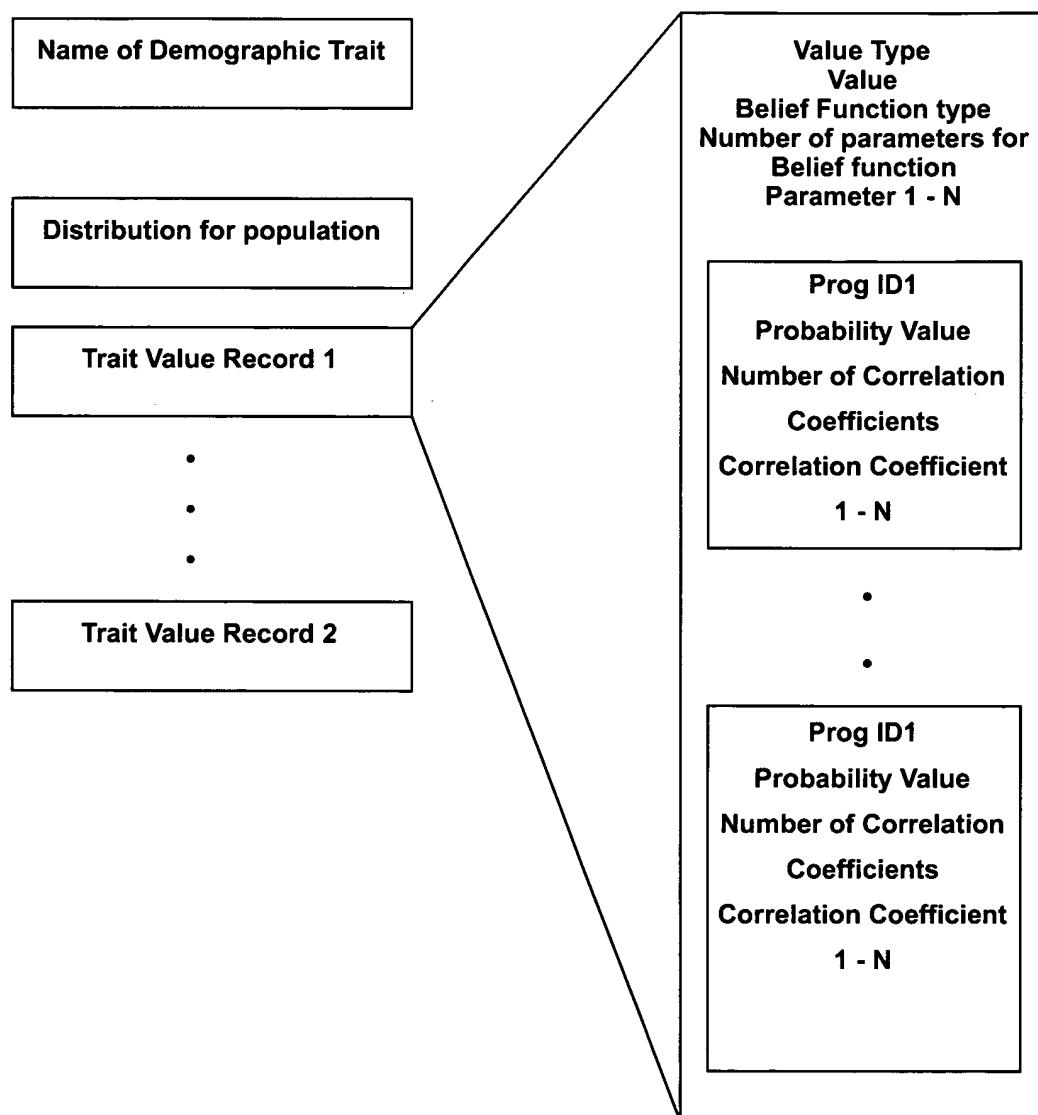


FIG. 23b

Advertisement Targeting Record format

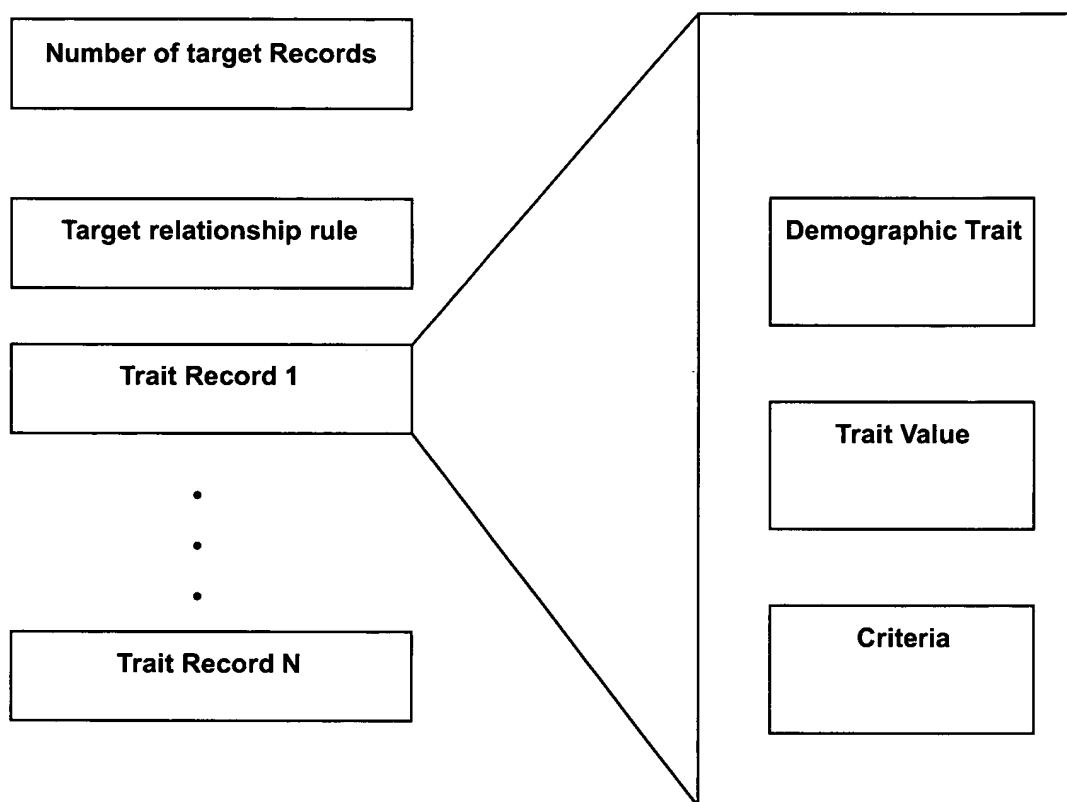


FIG. 23c

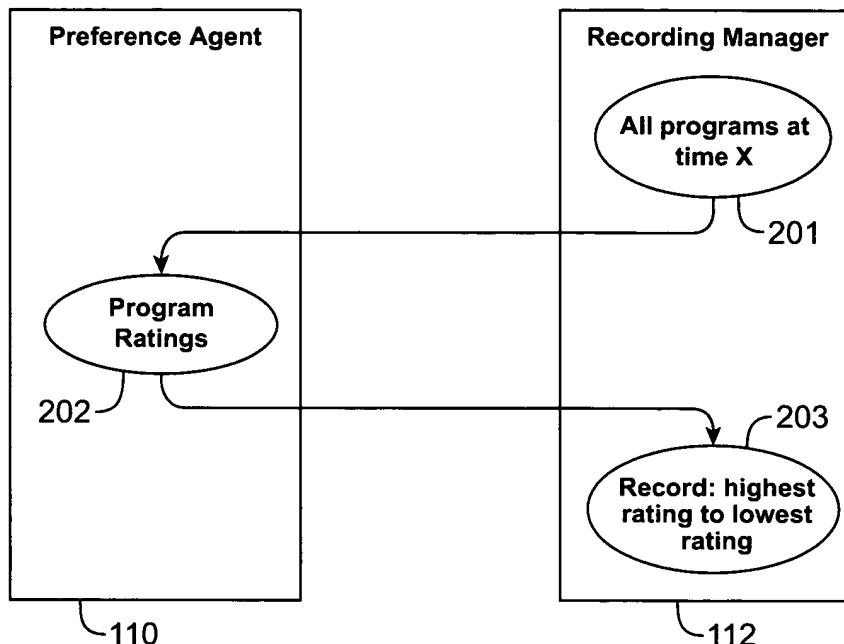


FIG. 24

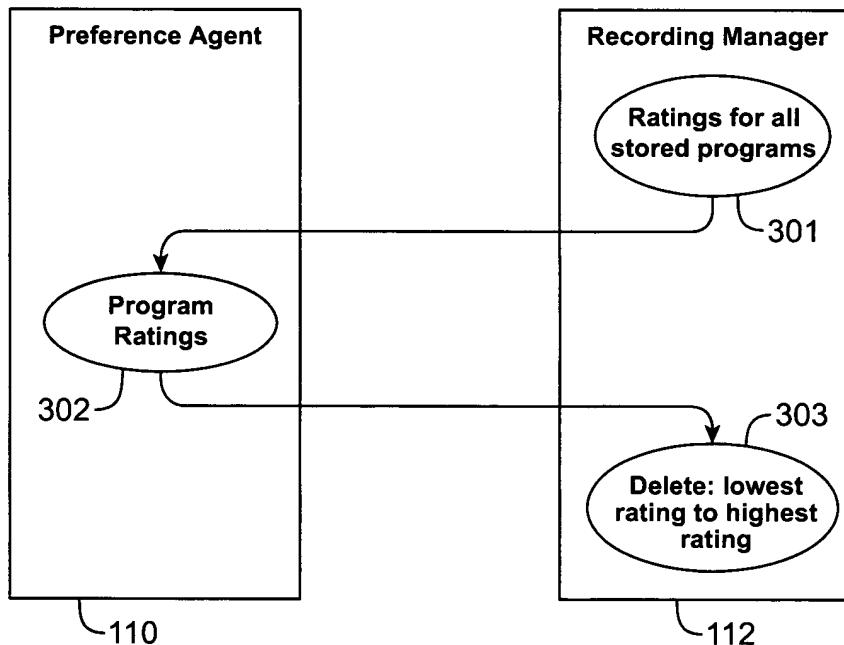


FIG. 25

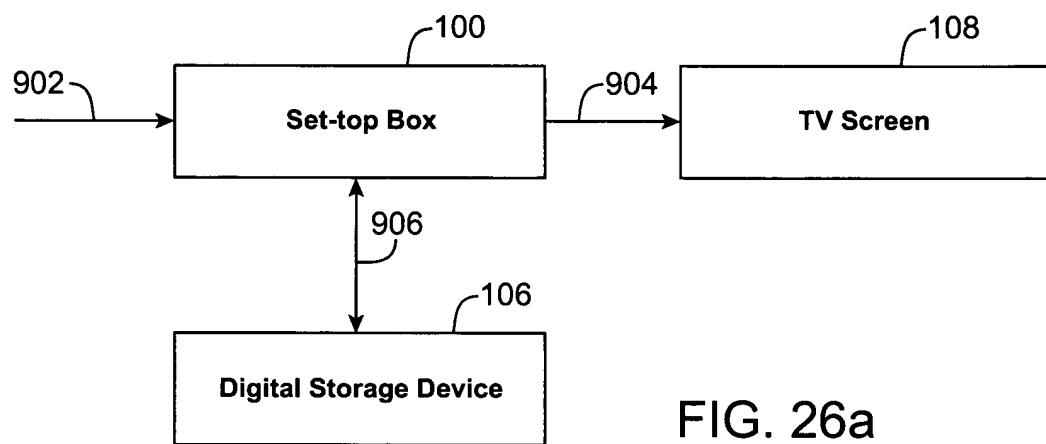


FIG. 26a

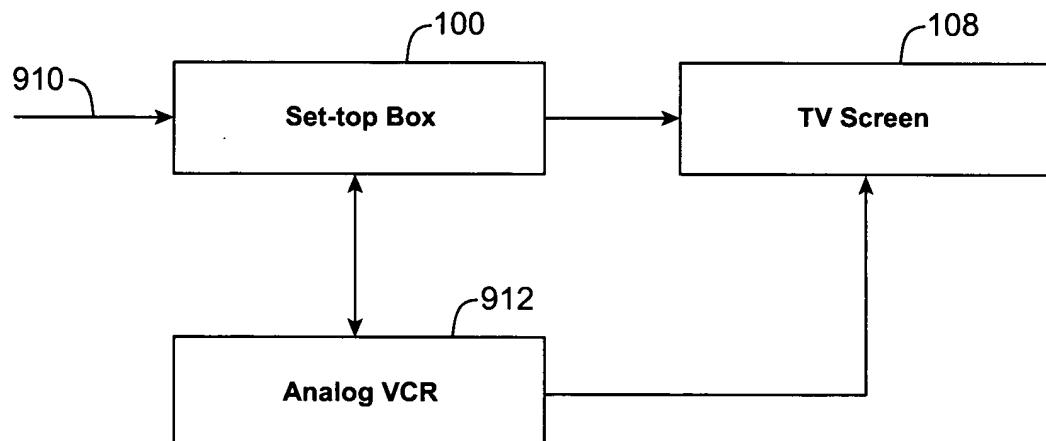


FIG. 26b

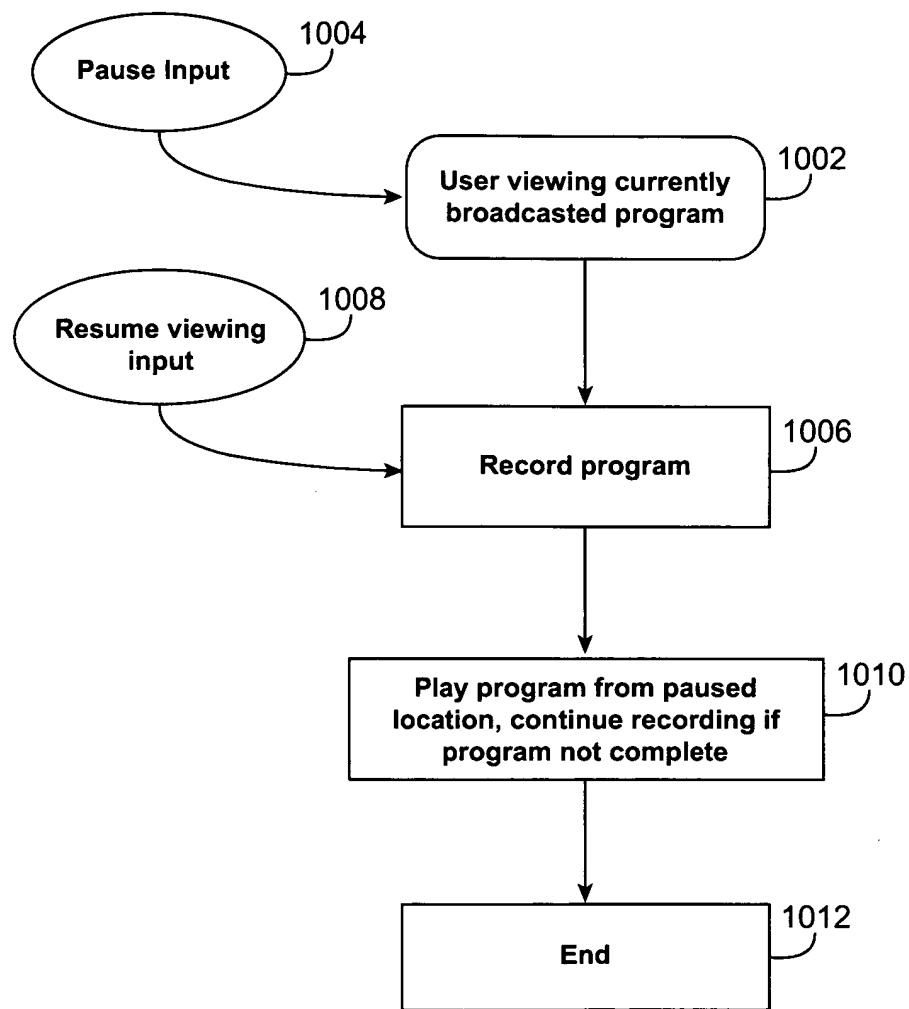


FIG. 27

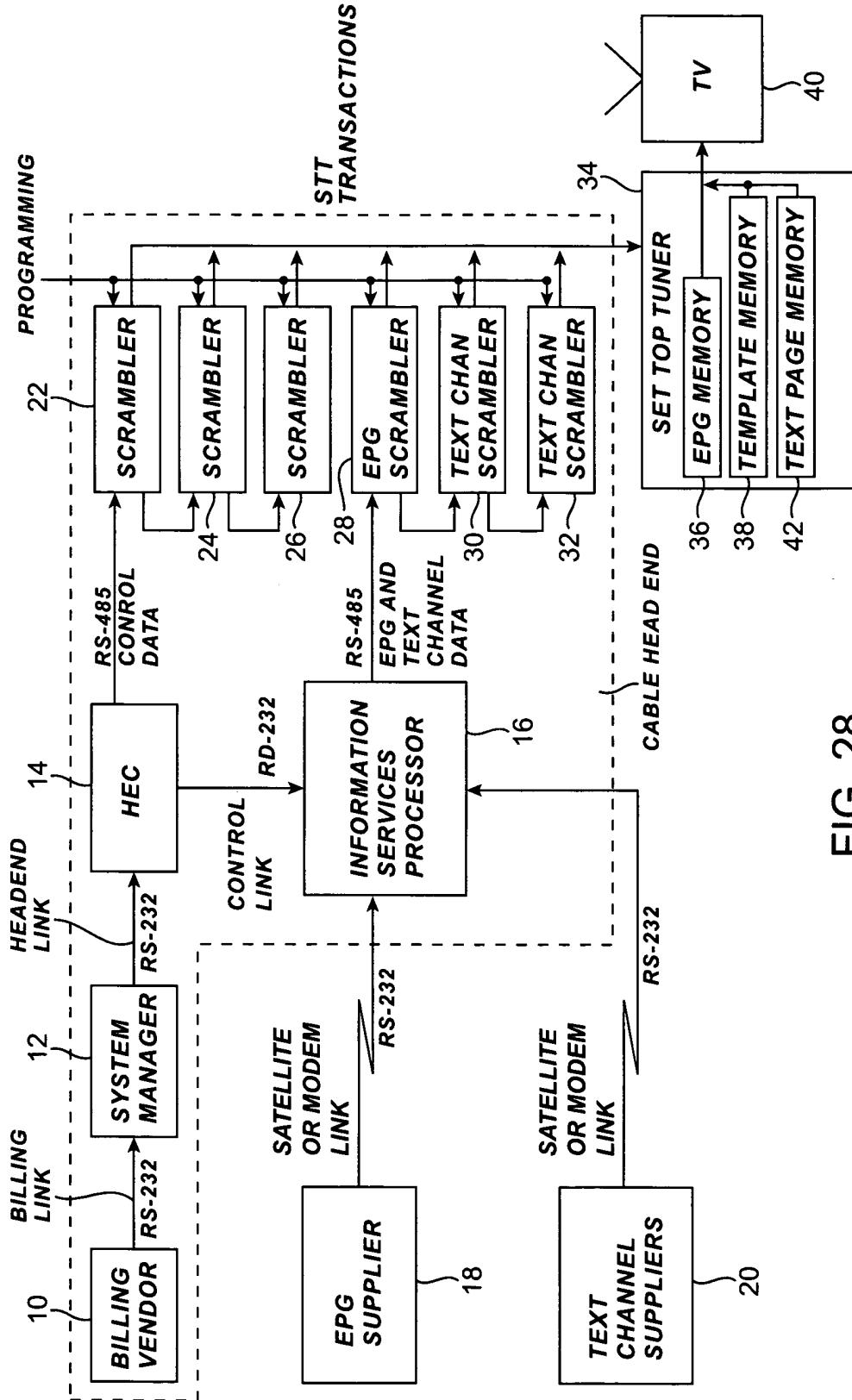


FIG. 28

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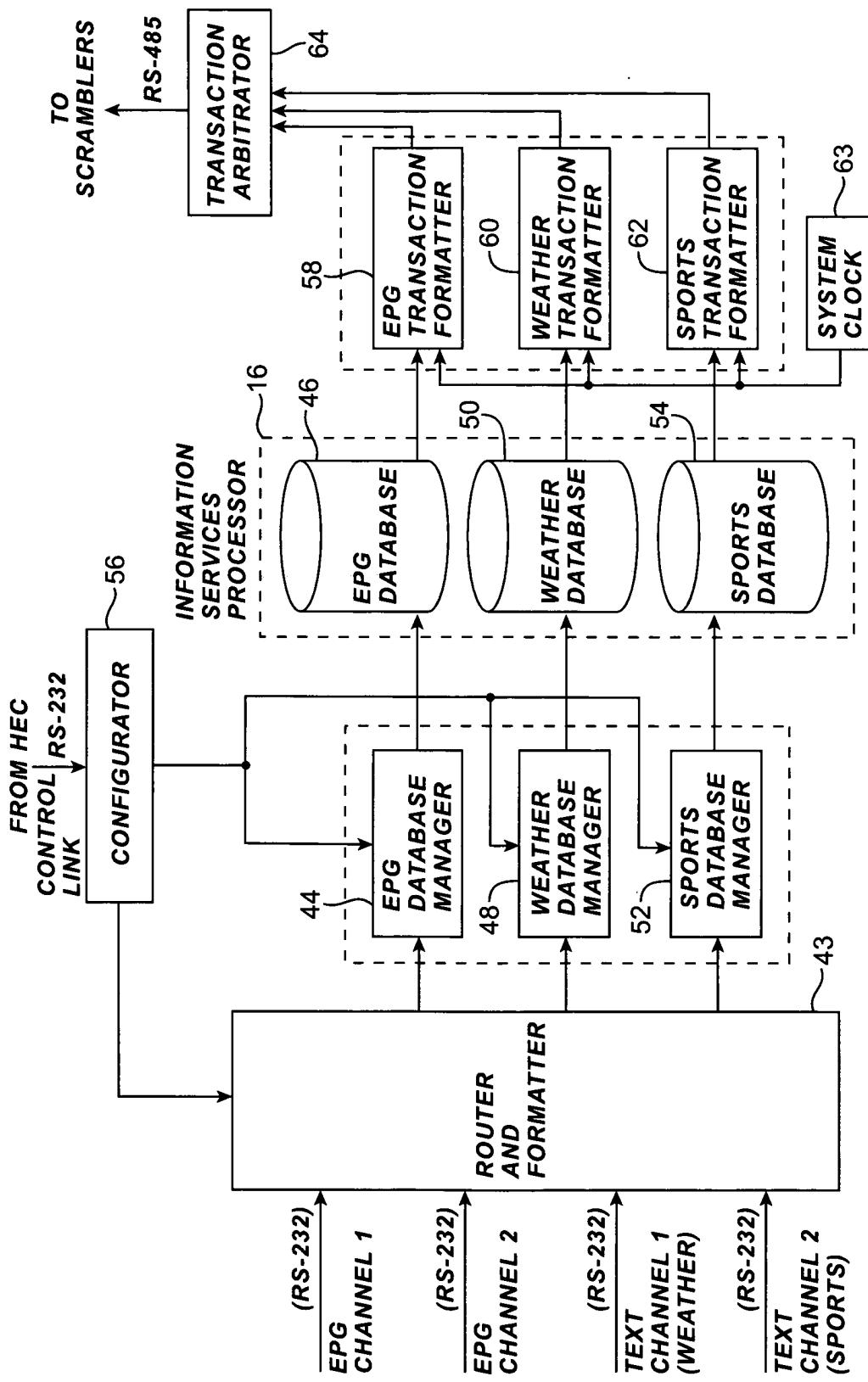


FIG. 29

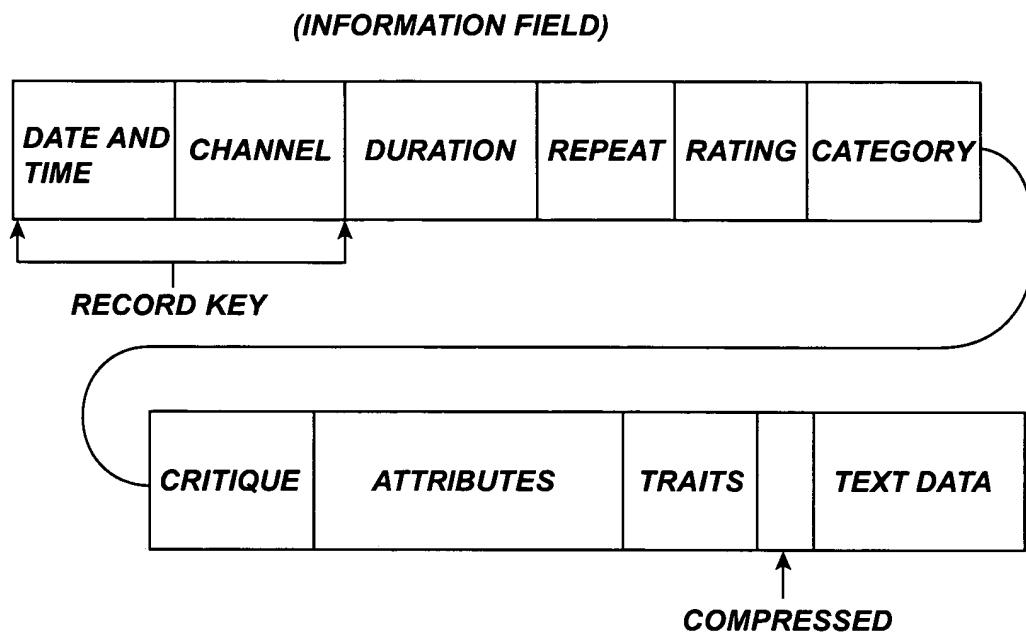


FIG. 30

(TO SCRAMBLERS)



FIG. 31

EPG TRANSACTION FORMATTER 58

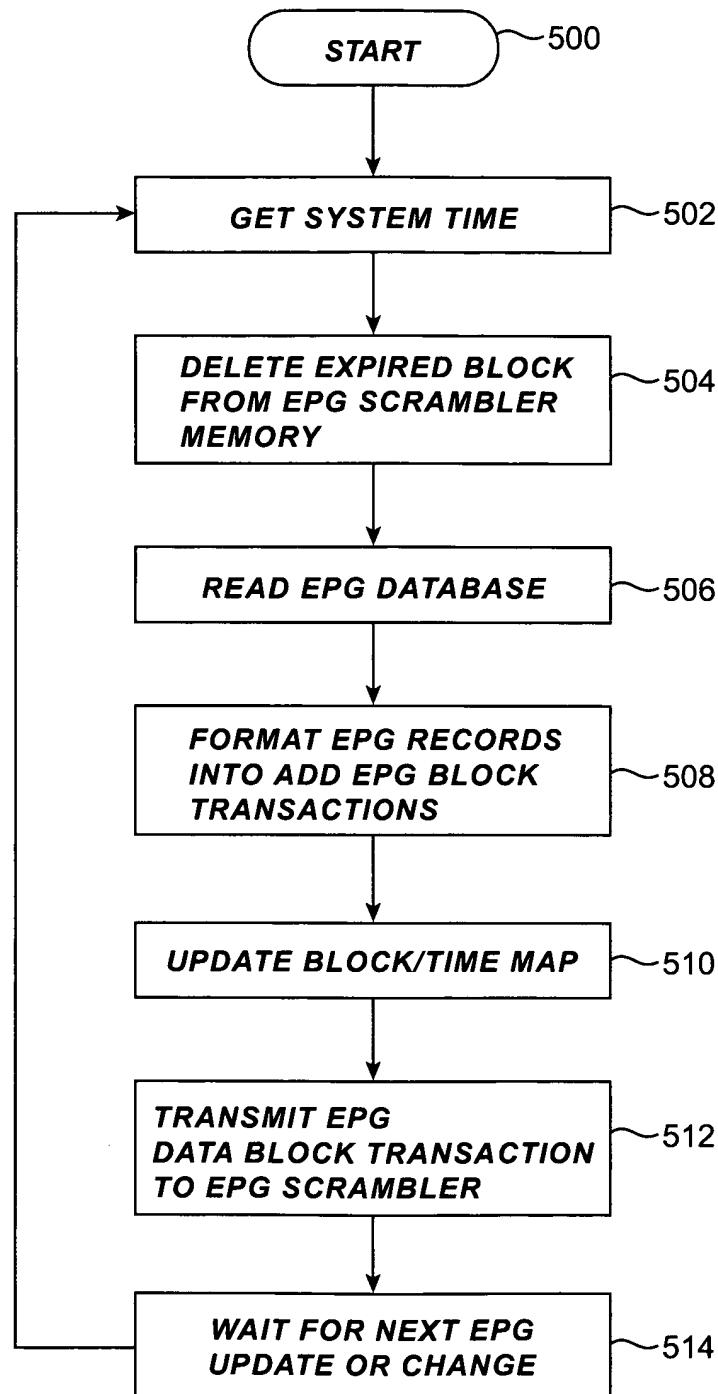


FIG. 32

TEXT CHANNEL TRANSACTION FORMATTER 60,62

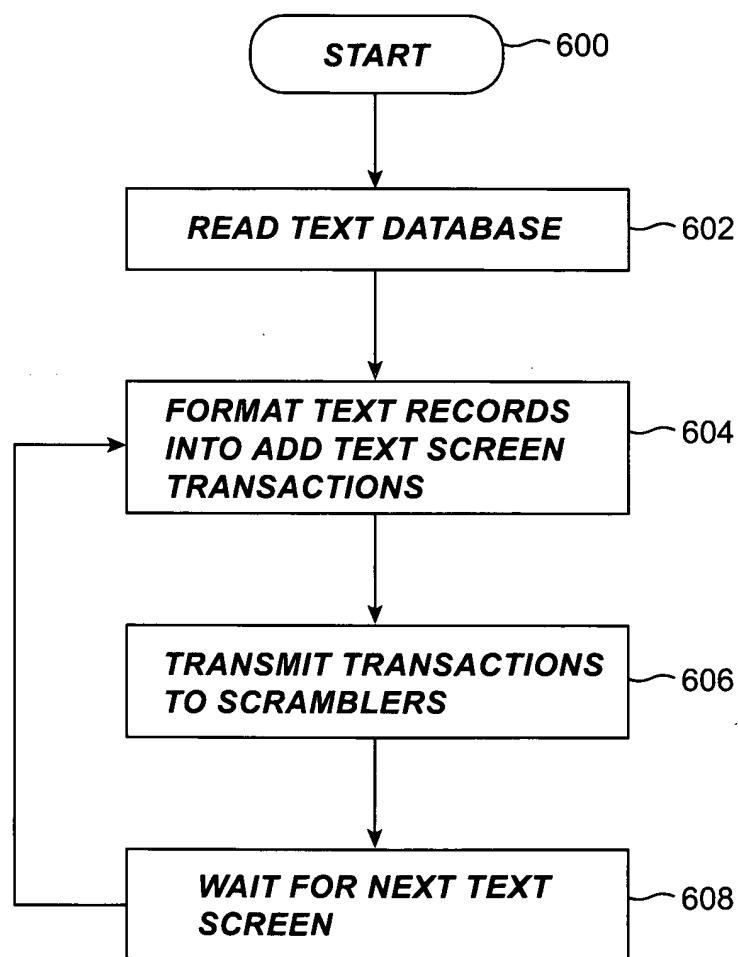


FIG. 33

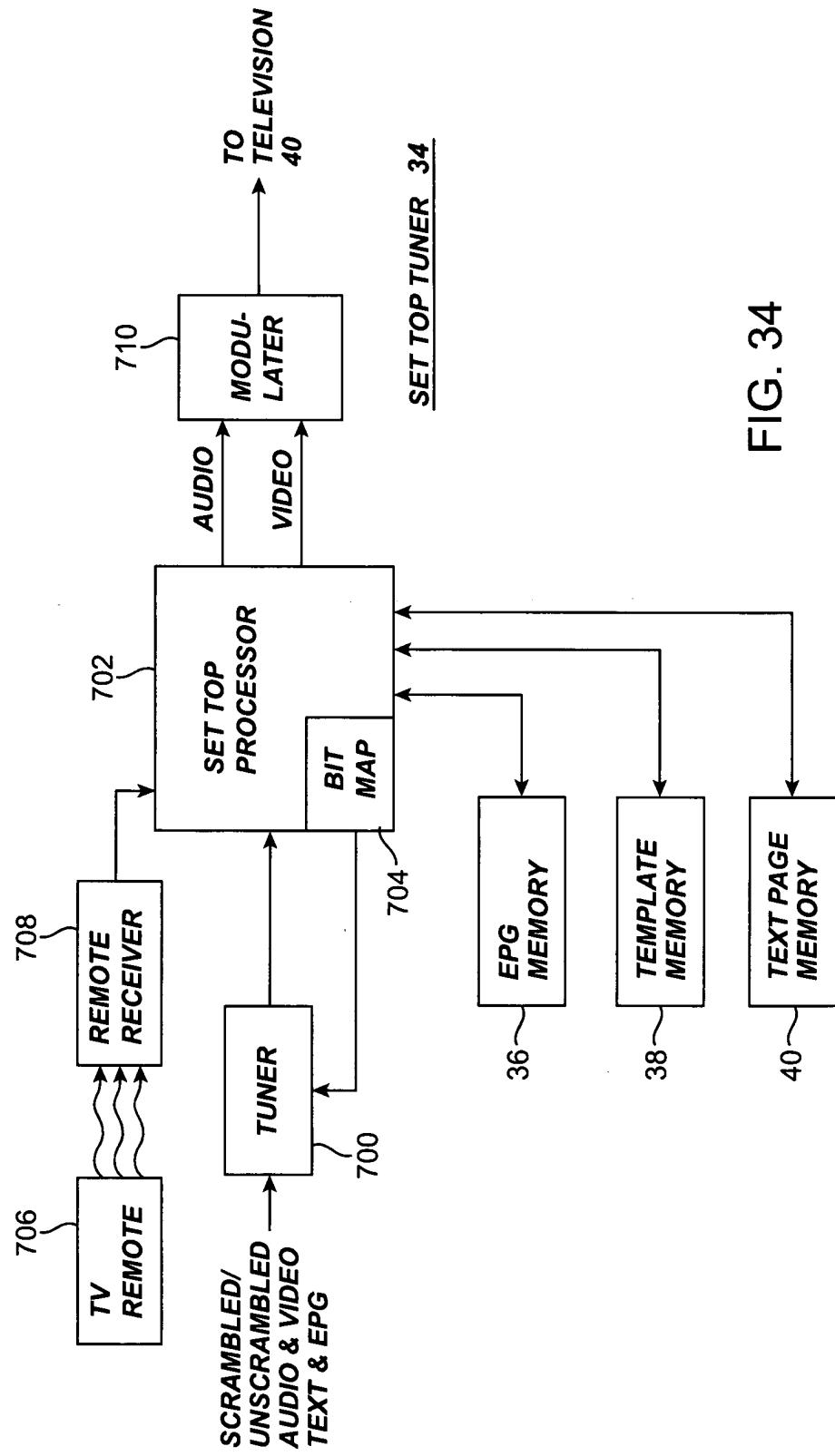


FIG. 34

**Process for automatically creating multiple profiles and
automatically identifying currently active profiles**

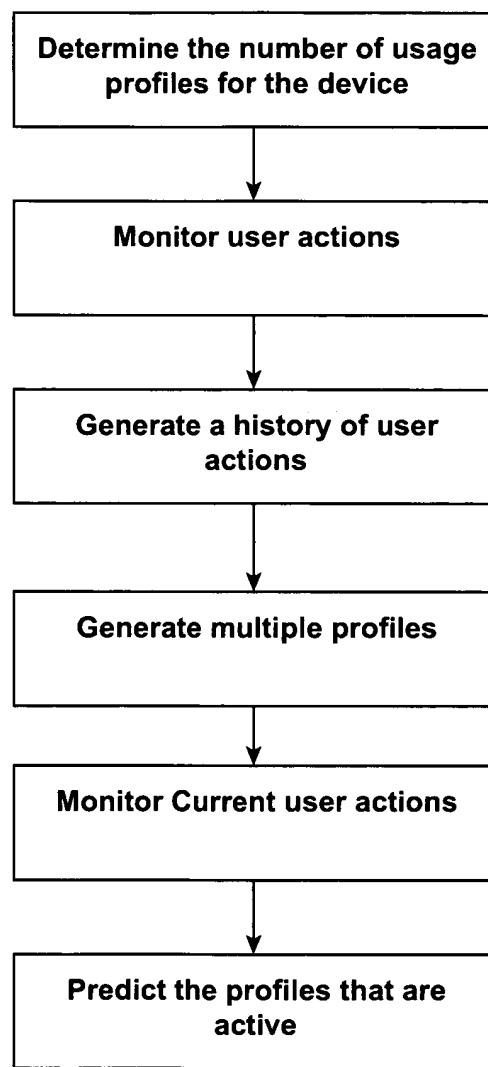


FIG. 35

Process for generating multiple profiles

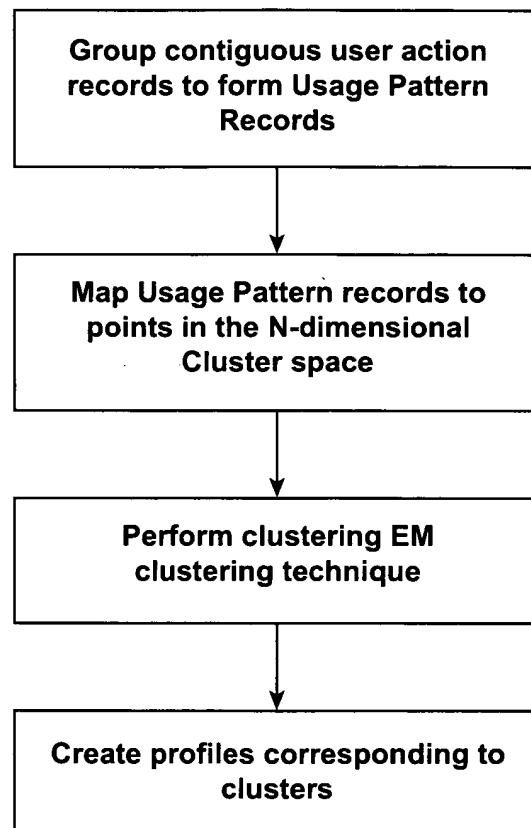
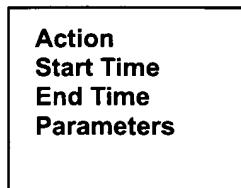
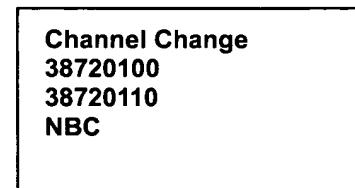


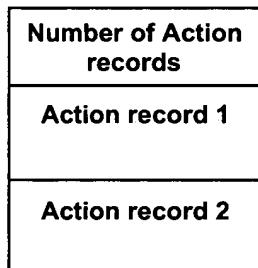
FIG. 36



B) Format of user action record



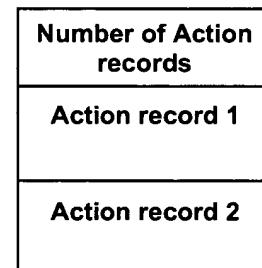
B) Example of user action record



•

•

Action record N



•

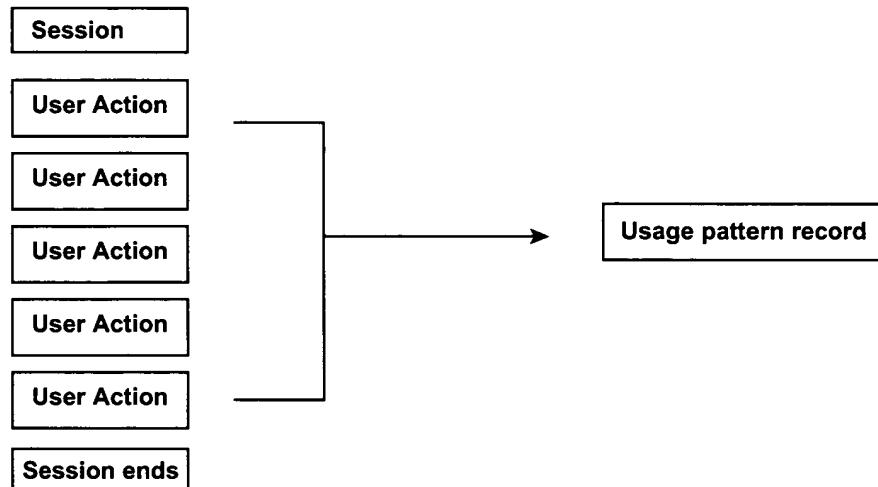
•

Action record N

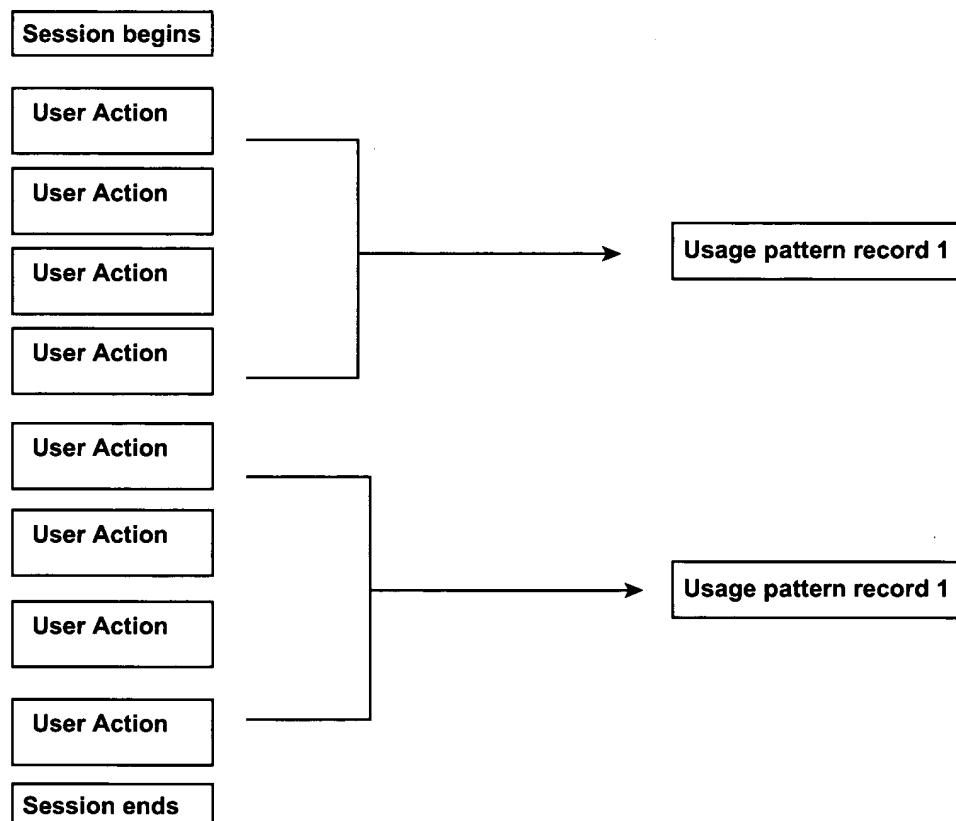
C) Format of History database

D) Format of Usage pattern record

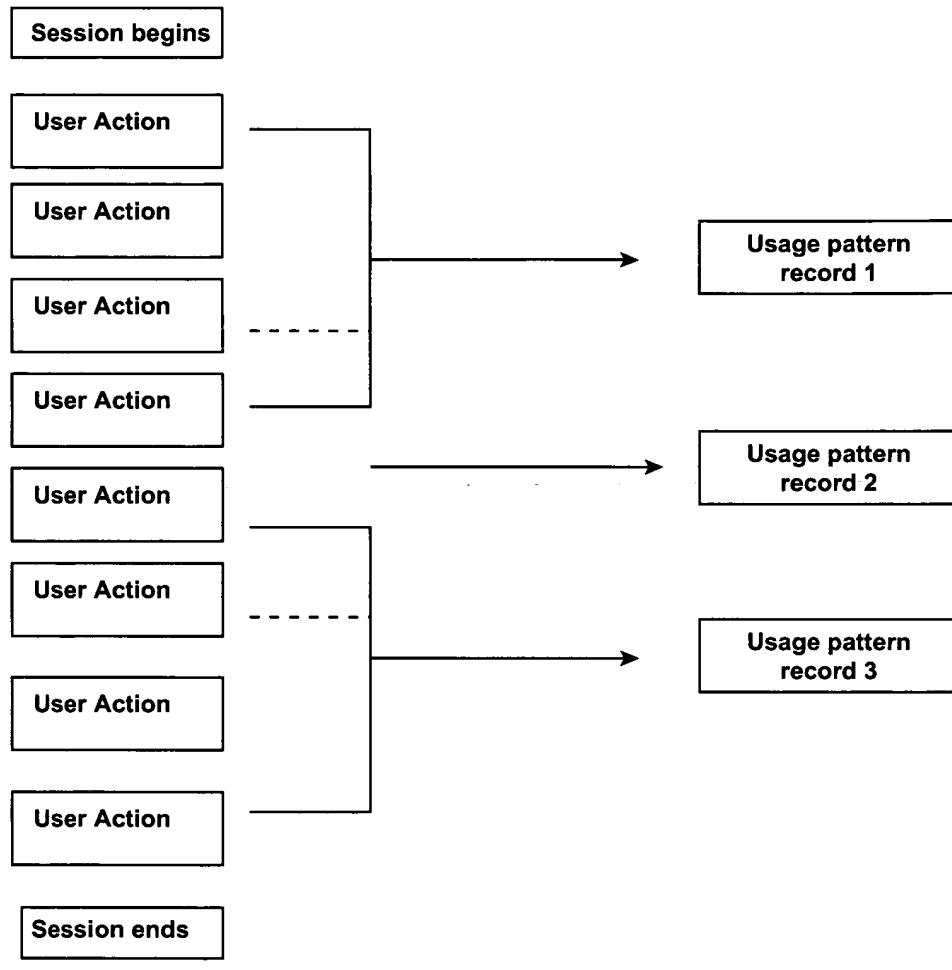
FIG. 37



A) One method for creating usage pattern



B) One method for creating usage pattern



One method for creating usage pattern record

FIG. 39

Process for Predicting currently active profiles

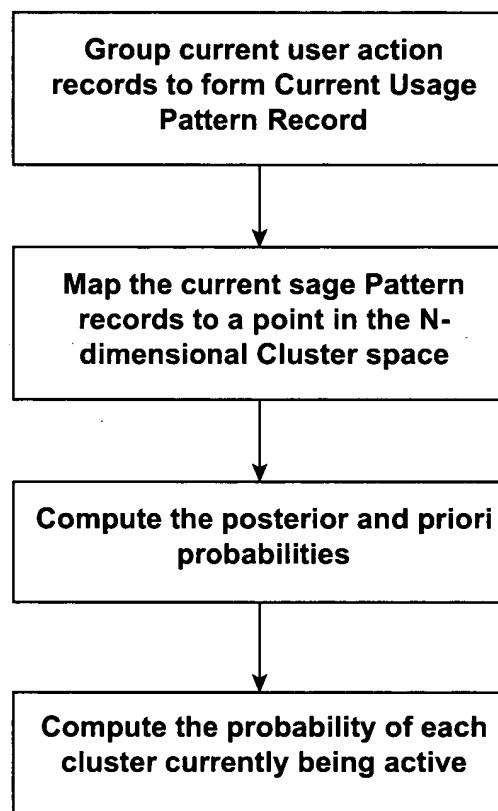


FIG. 40

Profile Creation using Generated Clusters

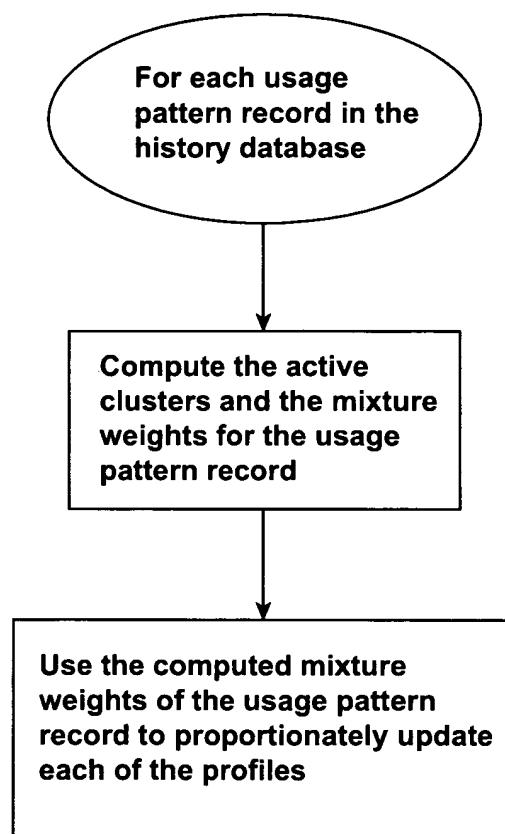


FIG. 41

Targeted Electronic Content Distribution without compromising privacy of users

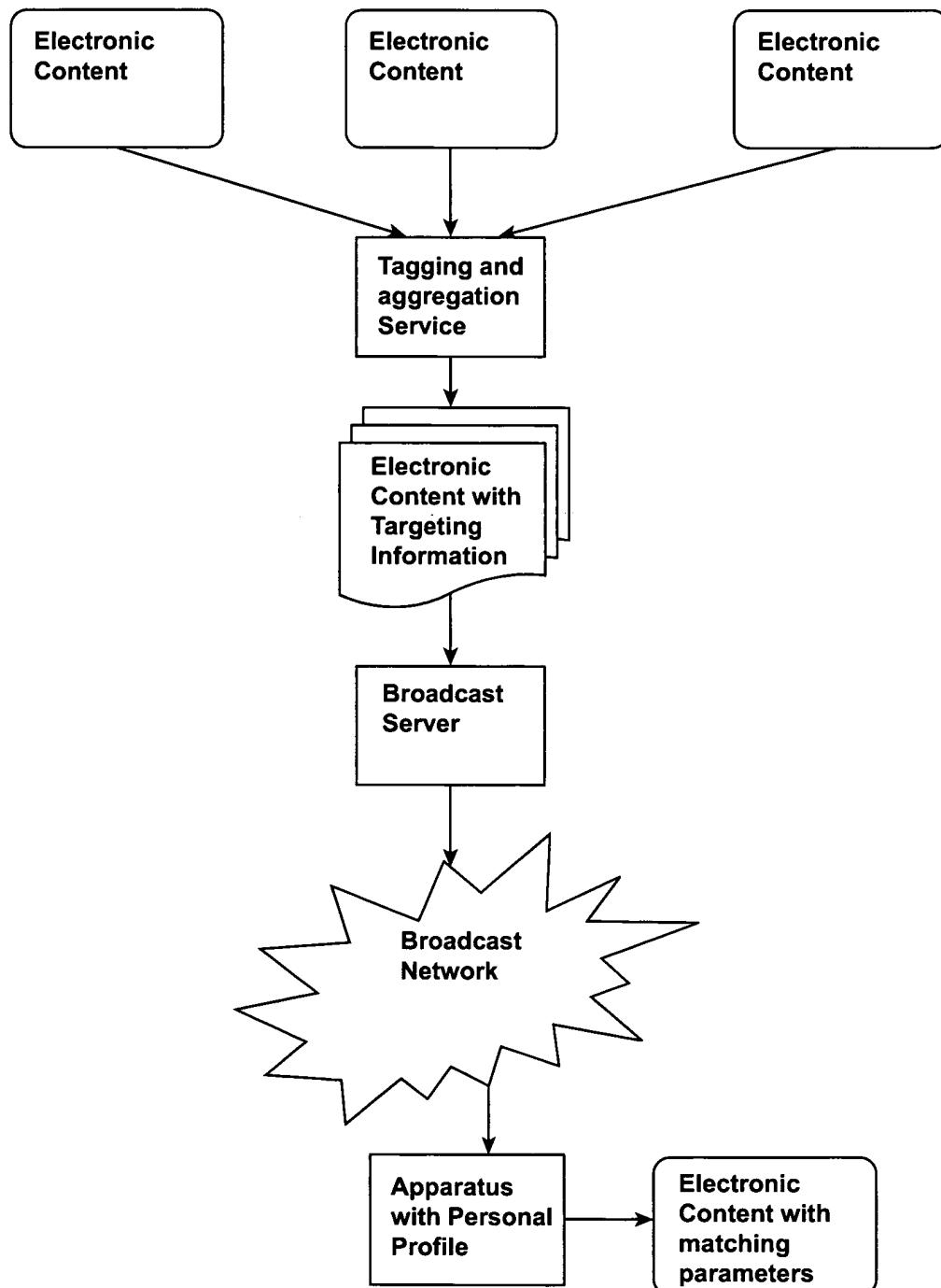


FIG. 42

